Bibliography of the Family Catostomidae (Cypriniformes)

John Clay Bruner

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BIBLIOGRAPHY OF THE FAMILY CATOSTOMIDAE (CYPRINIFORMES)

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PREFACE

This bibliography lists 2000 references for unpublished and published reports, articles, Master of Science theses, Doctoral dissertations, maps, and books relating to the Family Catostomidae (Order Cypriniformes). Both living and fossil forms are included. A list of all the sources of information is given in order that future workers on suckers may continue from where this bibliography stops. Indices are provided for Master of Science theses, Doctoral dissertations, common names and scientific names. Entries for Master of Science theses, Doctoral dissertations and scientific names list references alphabetically by author(s) and year. The listings of the scientific names include subspecies names and use the names that the author(s) used in the publication.

An attempt has been made to compile everything ever published on the Family Catostomidae (Order Cypriniformes). I do not pretend that I have succeeded in listing every reference ever published on the Catostomidae, but I tried. It is hoped this bibliography will save the user's valuable research time. The systematic index to the papers uses the spelling of the scientific names as they appeared in the original paper. However, I have not seen every one of the 2000 papers indexed in this bibliography and often was forced to rely on the abstract services. I have noticed these sometimes update spellings for scientific names without noting the change from the original author's usage. Besides the variation in spelling, one also must be aware of the various synonyms for each species. Five hundred and thirty five taxonomic categories were used to index the 2000 papers down to subspecies.

Some people may argue my spellings of the author's names Charles Alexandre Le Sueur and Bernard Germain Étienne La Cepède. I prefer to use the name as it appeared on the publication. For "Citoyen La Cepède" my authority is *The National Union Catalog Pre-1956 Imprints*, Vol. 310, Mansell Information/Publishing Limited, London, U.K., 698pp., NL 0011071. American Fisheries Society has been inconsistent in their spellings of these authors' names in their various editions of their list of fish names. Charles Alexandre Le Sueur's last name is spelled as LeSueur in the second edition (Bailey et al. 1966) and as Lesueur in the third (Bailey et al. 1970) and fourth (Robins et al. 1980) editions. Bernard Germain Éienne La Cepéde's last name is spelled as Lacépède in the second and third editions and as Lacepède in the fourth edition. Also, I always tried to use the full name of an author when it was known to me. This helps prevent combining papers by different authors who have the same last name and initials (for example, Carl Hubbs and Clark Hubbs).

Common names are listed when they are known to me. The first common name listed is usually the one established by the American Fisheries Society's list. Subsequent names are additional common names which have been used for suckers. Sometimes it is helpful to know what the common names of a hundred years ago were in order to establish what species the author is discussing. Although the worker should be warned, it is a dangerous precedent to use common fish names in establishing what species the author was discussing.

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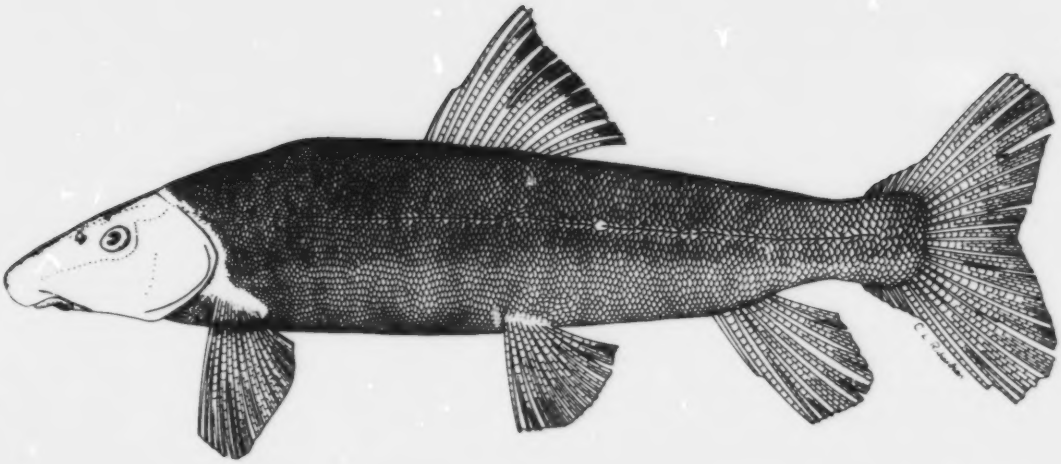
In order to be sure of getting every possible reference for a particular species of sucker, it is suggested that the worker search the 148 references under the category "Catostomidae" which I have not been able to scan personally. Included in this bibliography are 21 Master of Science theses and 39 Doctor of Philosophy Dissertations and a few provincial and state reports which are not normally covered by the abstract services. I would appreciate learning of any errors or corrections to this bibliography.

ACKNOWLEDGEMENTS

I wish to thank my wife, Sarah Derr Bruner, for help in editing this bibliography. I also wish to thank Randy Reichardt, Reference Librarian, University Library, University of Alberta, for help in obtaining some obscure references and Bob Gregorish, Computer Programmer/Anaylst, University of Alberta, for technical help in writing the computer program. Bob Fedun, University Computing Systems, University of Alberta, helped in answering my questions about Microsoft Word 4.0. Ms. Clara Richardson, scientific artist, Field Museum of Natural History, drew the illustration of the Longnose Sucker (*Catostomus catostomus*) from a specimen collected in Lake Michigan, Chicago, Illinois, which is deposited at the fish collections of the Field Museum of Natural History. This bibliography was prepared as part of Dr. Mark V. H. Wilson's Paleontology 620 seminar course at the University of Alberta.



Longnose Sucker (*Catostomus catastomus*) from Lake Michigan.

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CATOSTOMIDAE
Amin, O. M. (1987), Andreasen, J. K. (1976), Anonymous. (1973), Arai, Hisao P., and R. H. Kussat. (1967), Arldt, Th. (1907), Arldt, Th. (1912), Arldt, Th. (1923), Behnke, Robert J., and Ralph M. Wetzel. (1960), Berg, Leo Simonovich. (1912), Berg, Leo Simonovich. (1932), Berg, Leo Simonovich. (1940), Berg, Leo Simonovich. (1949), Berg, Leo Simonovich. (1964), Berkman, Hilary E., and Charles F. Rabeni, Terence P. Boyle. (1986), Blackwelder, Richard E. (1972), Boulenger, G. A. (1904), Branson, Branley A., and George A. Moore. (1962), Buchanon, T. M. (1973), Bussjaeger, C. E. (1973), Bussjaeger, C. E., and T. Briggs. (1978), Buth, Donald G. (1978), Buth, Donald G. (1979a), Buth, Donald G. (1984), Buynak, G. L., and H. W. Mohr, Jr. (1980), Casteel, Richard W., and D. P. Adam. (1977), Chadwick, James W., and Steven P. Canton. (1983), Cockerell, T. D. A. (1913), Cockerell, T. D. A., and Edith M. Allison. (1909), Comiskey, C. E., and D. A. Etnier. (1972), Cope, Edward Drinker. (1872a), Curry, Kevin D. (1980), Curry, Kevin D., and Anne Spacie. (1980), Denison, Samuel G., and Carl R. Carlson, John L. Dorkin, Jr., Cecil Lue-Hing. (1978), Denoncourt, R. F. (1975), Dunham, A. E., and Gerald R. Smith, J. N. Taylor. (1979), Dymond, J. R. (1947), Eastman, Joseph T. (1977), Eaton, T. H., Jr. (1935), Edwards, L. F. (1926), Emery, Alan R. (1973), Eschmeyer, William N. (1990), Fedoruk, A.

N. (1971), Ferris, Stephen D. (1983), Ferris, Stephen D., and S. L. Portnoy, Gregory S. Whitt. (1979), Ferris, Stephen D., and Gregory S. Whitt. (1980), Fowden, M. (1980), Frick, H. C. (1965), Fuiman, L. A., and L. Corazza. (1979), Gammon, J. R. (1977), Geen, G. H., and T. G. Northcote. (1968), Gill, Theodore Nicholas. (1861), Gill, Theodore Nicholas. (1872), Gill, Theodore Nicholas. (1875), Gill, Theodore Nicholas. (1885), Gill, Theodore Nicholas. (1893), Gill, Theodore Nicholas. (1905), Goodrich, Edwin S. (1909), Gosline, William A. (1973), Gregory, William K. (1933), Günther, Albert C. (1868), Günther, Albert C. (1880), Hacker, V. A. (1977), Hay, Oliver Perry. (1929), Herald, Earl S. (1967), Herald, Earl S. (1979), Hocutt, C. H. (1979), Hoffman, Glenn L., and Fred P. Meyer. (1974), Hornshaw, T. C., and R. J. Aulerich, H. E. Johnson. (1983), Hubbs, Carl L. (1958), Huntsman, G. R. (1965), Huntsman, G. R. (1967a), Huntsman, G. R. (1970), Jones, F. W., and F. D. Martin, J. D. Hardy, Jr. (1978), Jordan, David Starr. (1885b), Jordan, David Starr. (1886), Jordan, David Starr. (1905), Jordan, David Starr. (1907a), Jordan, David Starr. (1923), Jordan, David Starr. (1929), Jordan, David Starr, and Alembert Winthrop Brayton. (1877), Jordan, David Starr, and Barton Warren Evermann. (1896), Kafuku, T. (1957), Krumholz, Louis A. (1943), Lagler, Karl F., and John E. Bardach, Robert Rush Miller. (1962), Laird, Lindsay M., and Brian Stott. (1978), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Lindberg, Georgiy Ustinovich. (1972), Lindsey, Casimir Charles. (1975), Lippson, Alice J. (1976), Loranger, A. J. (1981), Lowe-McConnell, R. H. (1978), Mackiewicz, J. S. (1968), McAllister, Don E., and Brian W. Coad. (1974), McDonald, H. Gregory, and Elaine Anderson. (1975), McDonald, Jerry N., and Charles S. Bartlett, Jr. (1983), McGuire, D. L. (1981), McKee, J. E., and H. W. Wolf. (1963), McNally, Tom. (1970), McPhail, J. D., and C. C. Lindsey. (1970), Mettee, M. F. (1978), Meyers, George Sprague. (1966), Miller, R. J., and H. W. Robison. (1973), Miller, Robert Rush. (1955), Miller, Robert Rush. (1958), Miller, Robert Rush. (1972), Molnar, K., and G. Hanek, C. H. Fernando. (1974), Moore, R. A. (1948), Moyle, Peter B. (1976), Moyle, Peter B. (1977), Moyle, Peter B., and Joseph J. Cech, Jr. (1982), Moyle, Peter B., and Bruce Vondracek. (1985), Munthe, Jens. (1980), Nelson, Edward M. (1961), Nelson, Joseph S. (1976), 1190. Novacek, Michael J., and Larry G. Marshall. (1976), Obruchev, D. V. (ed.) (1967), Ommanney, Francis Downes. (1969), Patrick, R., and J. Cairns, S. S. Roback. (1966), Pfeiffer, W. (1963), Pflieger, William L. (1971), Phillips, G. L. (1971), Phillips, Gary L., and William D. Schmid, James C. Underhill. (1982), Pister, Edwin P. (1981), Principe, P. A. (1977), Ramaswami, L. S. (1955a), Ramaswami, L. S. (1955b), Ramaswami, L. S. (1957), Rauther, M. (1913), Regan, Charles Tate. (1911), Regan, Charles Tate. (1922), Ricker, W. E. (1962), Roberts, Tyson R. (1973), Robinson, H. W., and T. M. Buchanan. (1988), Romer, Alfred Sherwood. (1966), Sagemehl, M. (1891), Scoppettone, G. G. (1988), Shchukin, G. P., and N. N. Mirgorodchenko, M. Kh. Bulatov, M. Kh. Abdullin, A. N. Salakhutdinov, A. A. Shchukina. (1982), Slastenenko, E. P. (1957), Slastenenko, E. P. (1958), Smith, C. Lavett. (1962), Smith, Gerald R. (1981b), Smith, Gerald R. (1987), Stevenson, H. M. (1976), Swanson, Stella M. (1983), Teller-Marshall, Susan, and David Bardack. (1978), Trautman, Milton B. (1981), Underhill, James C. (1957), Uyeno, Teruya. (1972), Uyeno, Teruya, and Robert Rush Miller. (1962), Uyeno, Teruya, and Gerald R. Smith. (1972), van Deventer, J. S., and W. S. Platts. (1985), Verigina, I. A. (1983), Vladykov, Vadim D. (1934), White, G., and J. P. Harley. (1974), Wigley, R. L. (1959), Williams, D. D. (1977a), Williams, D. D. (1978b), Williams, D. D. (1980b), Williams, D. D., and M. J. Ulmer. (1970), Wiltz, J. W. (1984), Winn, H. E., and Robert Rush Miller. (1954), Woodling, J. (1985), Woods, Loren P. (1959), Wu, H.-w., and J. L. Lo, J. T. Lin. (1979),

Acomus Girard, 1856.

Eschmeyer, William N. (1990), Girard, C. F. (1857), Jordan, David Starr. (1923), Jordan, David Starr, and Barton Warren Evermann. (1896),

Acomus forsterianus Girard, 1857.

Girard, C. F. (1857), Jordan, David Starr, and Barton Warren Evermann. (1896),

Acomus generosus (Girard, 1856).
Smith, Gerald R. (1966),

Acomus guzmaniensis (Girard, 1857).
Girard, C. F. (1857), Smith, Gerald R. (1966),

Acomus latipinis (Baird and Girard, 1854).
Günther, Albert C. (1868), 1739,

Amblodon Rafinesque, 1818.
Bailey, R. M., and W. N. Eschmeyer. (1988), Eschmeyer, William N. (1990), Fowler, Henry Weed. (1914a), Opinion 1582. (1990),.

Amblodon bubalus Rafinesque, 1818.
Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Jordan, David Starr, and Barton Warren Evermann. (1896), Rafinesque, Constantine Samuel. (1818a), Rafinesque, Constantine Samuel. (1820b), Smith, Philip W. (1979),

Amblodon niger Rafinesque, 1819.
Jordan, David Starr, and Barton Warren Evermann. (1896), Rafinesque, Constantine Samuel. (1819),

Amyzon Cope, 1872.
Arldt, Th. (1907), Arldt, Th. (1923), Cavender, Ted M. (1968), Cavender, Ted M. (1986), Cockerell, T. D. A. (1906), Cockerell, T. D. A. (1908), Cockerell, T. D. A. (1914), Cope, Edward Drinker. (1872b), Cope, Edward Drinker. (1873), Cope, Edward Drinker. (1885), Cross, Frank B., and Richard L. Mayden, J. D. Stewart. (1986), Dawson, George Mercer. (1896), Drew, Wayland, and Don Baldwin, Alan Emery, Wayne McLaren, Robert Collins. (1974), Eastman, Charles Rochester. (1917), Eastman, Joseph T. (1980), Grande, Roger Lance. (1980), Hay, Oliver Perry. (1902), Hay, Oliver Perry. (1929), Jordan, David Starr. (1923), Meek, Alexander. (1916), Miller, Robert Rush. (1958), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Nelson, Edward M. (1948), Nelson, Edward M. (1949), Nelson, Joseph S. (1984), Obruchev, D. V. (ed.) (1967), Orr, William N., and Elizabeth L. Orr. (1981), Penhallow, D. P. (1908), Regan, Charles Tate. (1922), Romer, Alfred Sherwood. (1966), Schlosser, Max. (1917), Smith, Gerald R. (1966), Uyeno, Teruya, and Robert Rush Miller. (1962), Vladykov, Vadim D. (1934), Wilson, Mark Vincent Hardman. (1974), Wilson, Mark Vincent Hardman. (1977a), Wilson, Mark Vincent Hardman. (1977b), Wilson, Mark Vincent Hardman. (1977c), Wilson, Mark Vincent Hardman. (1978), Wilson, Mark Vincent Hardman. (1979), Wilson, Mark Vincent Hardman. (1984), Woodward, A. Smith. (1901), Zittel, Karl A. von. (1932),

Amyzon aggregatum Wilson, 1977.
Wilson, Mark Vincent Hardman. (1974), Wilson, Mark Vincent Hardman. (1977a), Wilson, Mark Vincent Hardman. (1977c), Wilson, Mark Vincent Hardman. (1980), Wilson, Mark Vincent Hardman. (1984),

Amyzon brevipinne Cope, 1894.
Cockerell, T. D. A. (1908), Cope, Edward Drinker. (1894), Eastman, Charles Rochester. (1917), Hay, Oliver Perry. (1902), Hay, Oliver Perry. (1929), Lambe, Lawrence M. (1904), Lambe, Lawrence M. (1906a), Lambe, Lawrence M. (1906b), Lambe, Lawrence M. (1906c), Penhallow, D. P. (1908), Wilson, Mark Vincent Hardman. (1974), Wilson, Mark Vincent Hardman. (1977a), Wilson, Mark Vincent Hardman. (1977c), Wilson, Mark Vincent Hardman. (1980), Wilson, Mark Vincent Hardman. (1984), Woodward, A. Smith. (1901),

Amyzon brevipinnis Cope, 1894.
Uyeno, Teruya, and Robert Rush Miller. (1963),

Amyzon commune Cope, 1874.
Cockerell, T. D. A. (1908), Cope, Edward Drinker. (1874a), Cope, Edward Drinker. (1874b), Cope, Edward Drinker. (1875), Cope, Edward Drinker. (1885), Hay, Oliver Perry. (1902), Hay, Oliver Perry. (1929), Lambe, Lawrence M. (1906a), Lambe, Lawrence M. (1906b), Lambe, Lawrence M. (1906c), Merrill, George P. (1907), Osborn, H. F., and W. B. Scott, Francis Speir, Jr. (1878), Penhallow, D. P. (1908), Wilson, Mark Vincent Hardman. (1974), Wilson, Mark Vincent Hardman. (1977a), Wilson, Mark Vincent Hardman. (1977c), Wilson, Mark Vincent Hardman. (1984), Woodward, A. Smith. (1901),

Amyzon fusiforme Cope, 1875.
Cockerell, T. D. A. (1908), Cope, Edward Drinker. (1875), Cope, Edward Drinker. (1885), Hay, Oliver Perry. (1902), Hay, Oliver Perry. (1929), Wilson, Mark Vincent Hardman. (1974), Wilson, Mark Vincent Hardman. (1977a), Wilson, Mark Vincent Hardman. (1977c), Woodward, A. Smith. (1901),

Amyzon gosiutensis Grande, Eastman and Cavender, 1982. Grande, Roger Lance. (1984), Grande, Roger Lance, and Joseph T. Eastman, Ted M. Cavender. (1982),

Amyzon interruptus Sytchevskaya, 1986.
Sytchevskaya, E. K. (1986),

Amyzon mentale Cope, 1872.
Cockerell, T. D. A. (1908), Cope, Edward Drinker. (1872b), Cope, Edward Drinker. (1872c), Cope, Edward Drinker. (1873), Cope, Edward Drinker. (1885), Hay, Oliver Perry. (1902), Hay, Oliver Perry. (1929), Merrill, George P. (1907), Wilson, Mark Vincent Hardman. (1974), Wilson, Mark Vincent Hardman. (1977a), Wilson, Mark Vincent Hardman. (1977c), Woodward, A. Smith. (1901),

Amyzon mentalis Cope, 1872.
La Rivers, Ira. (1962), Uyeno, Teruya, and Robert Rush Miller. (1963),

Amyzon pandatum Cope, 1875.
Cockerell, T. D. A. (1908), Cope, Edward Drinker. (1875), Cope, Edward Drinker. (1885), Hay, Oliver Perry. (1902), Hay, Oliver Perry. (1929), Wilson, Mark Vincent Hardman. (1974), Wilson, Mark Vincent Hardman. (1977a), Wilson, Mark Vincent Hardman. (1977c), Woodward, A. Smith. (1901),

Bubalichthys Agassiz, 1855.
Eschmeyer, William N. (1990), Jordan, David Starr. (1923), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1884),

Bubalichthys altus Nelson, 1877.
IN: Jordan, 1877. Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Goode, C. Brown, and Theodore Nicholas Gill. (1903), Jordan, David Starr. (1877b), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883),

Bubalichthys bonasus Agassiz, 1855.
Agassiz, John Louis Rodolphe. (1855), Jordan, David Starr, and Barton Warren Evermann. (1896),

Bubalichthys bubalinus Jordan, 1877.
Jordan, David Starr. (1878b), Jordan, David Starr, and Barton Warren Evermann. (1896),

Bubalichthys bubalus (Rafinesque, 1818).
Agassiz, John Louis Rodolphe. (1855), Jordan, David Starr. (1878d), Jordan, David Starr, and Barton Warren Evermann. (1896), Nelson, E. W. (1878),

Bubalichthys cyanellus.
Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Smith, Philip W. (1979),

Bubalichthys niger Agassiz, 1855.
Agassiz, John Louis Rodolphe. (1855), Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Jordan, David Starr, and Barton Warren Evermann. (1896),

Bubalichthys urus (Agassiz, 1854).
Agassiz, John Louis Rodolphe. (1855), Goode, C. Brown, and Theodore Nicholas Gill. (1903), Jordan, David Starr. (1878d), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1884), Smith, Philip W. (1979),

Carpiodes Rafinesque, 1820.
Carp Suckers.
Beecher, H. A. (1979b), Berner, Lester M. (1948), Clay, W. M. (1975), Drew, Wayland, and Don Baldwin, Alan Emery, Wayne McLaren, Robert Collins. (1974), Eastman, Joseph T. (1977), Eschmeyer, William N. (1990), Gregory, William K. (1933), Günther, Albert C. (1868),.Hoffman, Glenn L. (1967), Huntsman, G. R. (1967a), Jordan, David Starr. (1923), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1884), Jordan, David Starr, and Seth Eugene Meek. (1885), Lopinot, Alvin C. (ed.). (1968), Miller, Robert Rush. (1958), Moyle, Peter B., and Joseph J. Cech, Jr. (1982), Nasini, S. K. (1973), Nelson, Edward M. (1948), Nelson, Edward M. (1949), Nelson, Joseph S. (1976), Rafinesque, Constantine Samuel. (1820b), Ramaswami, L. S. (1957), Romer, Alfred Sherwood. (1966), Smith, Gerald R. (1966), Stark, B. J., and M. E. Eberle, G. W. Ernsting, T. L. Wenke. (1987), Uyeno, Teruya, and Robert Rush Miller. (1962), Whitaker, J. O., Jr., and R. A. Schlueter. (1975), Yeager, Bruce L., and Kenneth J. Semmens. (1987),

Carpiodes asiaticus Bleeker, 1864.
Bleeker, P. (1864), Günther, Albert C. (1868),

Carpiodes bison Agassiz, 1854.
Agassiz, John Louis Rodolphe. (1854), Günther, Albert C. (1868), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Seth Eugene Meek. (1885), Smith, Philip W. (1979),

Carpiodes brevidens Sytchevskaya, 1986.
Sytchevskaya, E. K. (1986),

Carpiodes bubalis (Rafinesque, 1818).
Jordan, David Starr, and Seth Eugene Meek. (1885),

Carpiodes carpio (Rafinesque, 1820).
River carpsucker, Carp Sucker, Common River Carp. Al-Rawi, T. R. (1964), Anonymous. (1961), Anonymous. (1965a), Anonymous. (1965b), Arruda, J. A., and M. S. Cringar, D. Gilliland, S. G. Haslouer, J. E. Fry, R. Broxterman, K. L. Brunson. (1987), Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C.

Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Barnhart, M. C., and E. C. Powell. (1979), Barnickol, P. G., and W. C. Starrett. (1951), Bass, J. C., and C. D. Riggs. (1959), Baxter, George T., and James R. Simon. (1970), Becker, George C. (1983), Behmer, D. J. (1965a), Behmer, D. J. (1965b), Behmer, D. J. (1966), Behmer, D. J. (1969a), Behmer, D. J. (1969b), Bennett, G. W., and W. F. Childers. (1966), Blatchley, W. S. (1938), Boschung, Herbert T., Jr., and James D. Williams, Daniel W. Gotshall, David K. Caldwell, Melba C. Caldwell, Carol Nehring, Jordan Verner. (1983), Bosley, T. R., and J. V. Conner. (1984), Branson, Branley A., and Donald L. Batch. (1974), Brezner, J. (1956), Brezner, J. (1958), Briggs, T., and C. Bussjaeger. (1972), Brown, C. J. D. (1971), Buck, D. H., and Frank B. Cross. (1952), Bulkley, R. V., and S.-Y. T. Leung, J. J. Richard. (1981), Carlander, Kenneth D. (1949), Carlander, Kenneth D. (1969), Carlander, Kenneth D., and R. B. Moorman. (1949), Chien, Shin Ming, and Wilmer A. Rogers. (1970), Christenson, L. M., and L. L. Smith. (1965), Clay, W. M. (1975), Cooper, Edwin Lavern. (1983), Cornelius, R. R. (1966), Cross, Frank B. (1967), Cross, Frank B., and Joseph T. Collins. (1975), Curry, Kevin D., and Anne Spacie. (1979), Cvancara, V. A., and S. F. Stieber, B. A. Cvancara. (1977), Dalquest, Walter W. (1962), Davis, Kenneth B., and Nick C. Parker. (1986), Deacon, James Everett. (1960), Deacon, James Everett. (1961), Dechtiar, A. O. (1968), Dietz, E. M. C., and K. C. Jurgens. (1963), Douglas, Neil H. (1974), Eastman, Joseph T. (1977), Eddy, Samuel. (1957), Eddy, Samuel. (1969), Eddy, Samuel, and James C. Underhill. (1974), Elkin, R. E., Jr. (1954), Elrod, J. H., and T. J. Hassler. (1971), Emery, Lee. (1976), Eschmeyer, R. W., and R. H. Stroud, A. M. Jones. (1944), Ferris, Stephen D., and Gregory S. Whitt. (1978), Finnell, Joe C. (1955), Fogle, N. E. (1961a), Fogle, N. E. (1961b), Fogle, N. E. (1963a), Fogle, N. E. (1963b), Forbes, Stephen Alfred. (1884), Forbes, Stephen Alfred., and Robert Earl Richardson. (1908), Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Fowler, Henry Weed. (1919), Fowler, Henry Weed. (1945), Funk, J. L., and R. S. Campbell. (1953), Goode, C. Brown, and Theodore Nicholas Gill. (1903), Hall, Gordon E., and R. M. Jenkins. (1953), Hancock, H. M. (1955), Hansen, D. F., and Hurst H. Shoemaker. (1943), Hanson, W. D., and R. S. Campbell. (1963), Hargis, H. L. (1966), Harlan, J. R., and E. B. Speaker. (1956), Harrison, H. M. (1950), Hoese, H. Dickson, and Richard H. Moore. (1977),.Hoffman, Glenn L. (1967), Houser, A. (1960), Houser, A., and M. G. Bross. (1963), Huggins, Donald G., and Randall E. Moss. (1975), Huntsman, G. R. (1967b), Jackson, S. W., Jr. (1966), Jenkins, Robert M. (1953a), Jenkins, Robert M. (1953c), Jenkins, Robert M., and J. C. Finnell. (1957), Jenkins, Robert M., and E. M. Leonard, G. E. Hall. (1952), Jester, D. B. (1972), Jordan, David Starr. (1878a), Jordan, David Starr. (1929), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Barton Warren Evermann. (1905), Jordan, David Starr, and Charles Henry Gilbert. (1883), Jordan, David Starr, and Charles Henry Gilbert. (1886), Jordan, David Starr, and Seth Eugene Meek. (1885), Keeton, D. (1963), Koster, William J. (1957), Kritsky, D. C., and P. D. Leiby, M. E. Shelton. (1972), Lambou, V. W. (1961), Large, T. (1903), Layher, W. G., and K. L. Brunson. (1986), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Leung, Siu-Yin Theresa, and Ross V. Bulkely, John J. Richard. (1981), Linton, T. L. (1961), Lopinot, Alvin C. (1966a), Lundberg, John G. (1967), Martin, R. E., and S. I. Auerbach, D. J. Nelson. (1964), Martin, R. G., and R. S. Campbell. (1953), Matthews, W. J. (1986), Matthews, W. J., and L. G. Hill, S. M. Schellhaass. (1985), May, E. B., and C. R. Gasaway. (1967), Miller, Rudolph J., and H. E. Evans. (1965), Miller, Rudolph J., and Henry W. Robinson. (1973), Mills, Paul A., Jr., and Charles H. Hocutt, Jay R. Stauffer, Jr. (1978), Minckley, W. L. (1959), Minckley, W. L., and R. H. Goodyear, J. E. Craddock. (1964), Morris, L. A. (1965), Nelson, E. W. (1876), Nelson, W. R. (1961a), Nelson, W. R. (1961b), Nelson, W. R. (1962), Nickol, B. B., and N. Samuel. (1983), O'Donnell, D. J. (1935), Orr, O. E. (1958), Page, Lawrence M. (1982), Pearson, William D., and Louis A. Krumholz (1984), Pflieger, William L. (1971), Pflieger, William L. (1975), Phillips, Gary L., and William D. Schmid, James C. Underhill. (1982), Proffitt, M. A., and R. S. Benda. (1971), Purkett, C. A., Jr. (1958a), Purkett, C. A., Jr. (1958b), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest

A. Lachner, Robert N. Lea, W. B. Scott. (1980), Robinson, G. L., and L. A. Jahn. (1980), Sandoz, O. (1960), Shields, J. T. (1955a), Shields, J. T. (1955b), Shields, J. T. (1956), Shields, J. T. (1957a), Shields, J. T. (1957b), Shields, J. T. (1958a), Shields, J. T. (1958b), Shih, M. C., and W. A. Rogers. (1970), Smith, C. Lavett. (1986), Smith, Gerald R. (1981b), Smith, John B., and Wayne A. Hubert. (1989), Smith, Philip W. (1965), Smith, Philip W. (1971), Smith, Philip W. (1973), Smith, Philip W. (1979), Sparks, Richard E., and William C. Starrett. (1975), Sprague, J. W. (1959a), Sprague, J. W. (1959b), Sprague, J. W. (1961), Stone, U. B. (1947), Summerfelt, R. C., and P. E. Mauck, G. Mensinger. (1972), Swingle, W. E. (1965), Thompson, W. H. (1950), Trautman, Milton B. (1957), Uyeno, Teruya, and Robert Rush Miller. (1963), Walburg, C. H. (1964), Walburg, C. H. (1976), Walburg, C. H., and W. R. Nelson. (1966), Ward, H. C. (1949), Werner, Robert G. (1976a), Werner, Robert G. (1976b), Whitaker, J. O., and D. C. Wallace. (1966), Willis, David W., and Lanny D. Jones. (1986), Wisdom, J. L. A. (1972),

Carpiodes carpio carpio (Rafinesque, 1820).

Northern River carpsucker.

Bailey, Reeve M., and Marvin O. Allum. (1962), Berner, Lester M. (1948), Buchanon, T. M. (1973), Cross, Frank B., and G. A. Moore. (1952), Davis, J. T. (1955), Hansen, D. F., and Hurst H. Shoemaker. (1943), Hubbs, Carl L. (1945), Hubbs, Carl L., and J. D. Black. (1940), Hubbs, Carl L., and Karl F. Lagler. (1941), Hubbs, Carl L., and Karl F. Lagler. (1947), Hubbs, Carl L., and Karl F. Lagler. (1974), Krumholz, Louis A. (1943), Nelson, Edward M. (1948), Personius, Robert Giles, and Samuel Eddy. (1955), Simon, James R. (1946), Smith, Philip W. (1979), Trautman, Milton B. (1957), Trautman, Milton B. (1981), Welter, Wilfred A. (1938),

Carpiodes carpio elongatus Meek.

Hubbs, Carl L., and J. D. Black. (1940), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Nelson, Edward M. (1948), Villar, José Alvarez del. (1970),

Carpiodes cutisanserinus Cope, 1870.

Cope, Edward Drinker. (1870), Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Seth Eugene Meek. (1885), Smith, Philip W. (1979), Trautman, Milton B. (1981),

Carpiodes cyprinus (Le Sueur, 1817).

Quillback, Eastern Carp Sucker, Skimback.

Amin, Omar M., and Ernest H. Williams, Jr. (1983), Bailey, Reeve M., and Marvin O. Allum. (1962), Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Bailey, Reeve M., and Gerald R. Smith. (1981), (1954), Barnickol, P. G., and W. C. Starrett. (1951), Bauer, Bruce H., and Branley A. Branson, Strant T. Colwell. (1978), Baxter, George T., and James R. Simon. (1970), Becker, George C. (1964a), Becker, George C. (1983), Beecher, H. A. (1979a), Beecher, H. A. (1980), Berner, Lester M. (1948), Beverly-Burton, Mary. (1984), Boschung, Herbert T., Jr., and James D. Williams, Daniel W. Gotshall, David K. Caldwell, Melba C. Caldwell, Carol Nehring, Jordan Verner. (1983), Breder, C. M., Jr., and D. E. Rosen. (1966), Buth, Donald G. (1983), Cahn, A. R. (1927), Call, M. W. (1960), Carlander, Kenneth D. (1944b), Carlander, Kenneth D. (1949), Carlander, Kenneth D. (1969), Carlander, Kenneth D., and R. B. Moorman. (1949), Carlander, Kenneth D., and J. W. Parsons. (1949), Chien, Shin Ming, and Wilmer A. Rogers. (1970), Clark, C. F. (1960), Clay, W. M. (1975), Cooper, Edwin Lavern. (1983), Cornelius, R. R. (1966), Cross, Frank B. (1967), Cross, Frank B., and Joseph T. Collins. (1975), Curry, Kevin D., and Anne Spacie. (1979), Dechtiar, A. O. (1972b), Dechtiar, A. O., and W. A. Dillon. (1974), Denison, Samuel G., and Carl R. Carlson, John L. Dorkin,

Jr., Cecil Lue-Hing. (1978), Deutsch, W. G. (1978), Dorkin, John L., Jr. (1980), Douglas, Neil H. (1974), Eastman, Joseph T. (1977), Eastman, Joseph T. (1980), Eddy, Samuel. (1957), Eddy, Samuel. (1969), Eddy, Samuel, and Roy C. Tasker, James C. Underhill. (1972), Eddy, Samuel, and James C. Underhill. (1974), Elser, H. J. (1961), Emery, Lee. (1976), Eschmeyer, R. W., and R. H. Stroud, A. M. Jones. (1944), Fago, Don. (1984b), Fernholz, W. B. (1966), Fernholz, W. B. (1971), Fernholz, W. B. (1972), Fernholz, W. B., and V. E. Crawley. (1976), Fernholz, W. B., and V. E. Crawley. (1977), Ferris, Stephen D., and Gregory S. Whitt. (1978), Fish, M. P. (1932), Forbes, Stephen Alfred. (1884), Forbes, Stephen Alfred. (1890), Forbes, Stephen Alfred., and Robert Earl Richardson. (1908), Fry, J. P. (1962), Fuiman, Lee A. (1979), Gammon, J. R. (1973), Gammon, J. R. (1977), Gerking, Shelby D. (1945), Gerlack, Jim. (1973), Goode, C. Brown, and Theodore Nicholas Gill. (1903), Grinham, T., and D. K. Cone. (1990), Haas, Robert L. (1943), Hanson, W. D., and R. S. Campbell. (1963), Harlan, J. R., and E. B. Speaker. (1956), Henderson, N. E., and R. E. Peter. (1969), Herald, Earl S. (1967), Herald, Earl S. (1979), Hinks, David. (1943),.Hoffman, Glenn L. (1967), Hubbs, Carl L. (1930), Hubbs, Carl L., and J. D. Black. (1940), Hubbs, Carl L., and Karl F. Lagler. (1941), Hubbs, Carl L., and Karl F. Lagler. (1947), Hubbs, Carl L., and Karl F. Lagler. (1974), Hubert, Wayne A., and Dennis N. Schmitt. (1985), Huntsman, G. R. (1967b), Jones, David T. (1929), Jordan, David Starr. (1878a), Jordan, David Starr. (1929), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Barton Warren Evermann. (1905), Jordan, David Starr, and Charles Henry Gilbert. (1883), Jordan, David Starr, and Seth Eugene Meek. (1885), Keleher, J. J., and B. Kooyman. (1957), Kritsky, D. C., and R. P. Hathaway. (1969), Krumholz, Louis A. (1943), Large, T. (1903), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Le Sueur, Charles Alexandre. (1817), Lippson, Alice J., and R. L. Moran. (1974), Lopinot, Alvin C. (1966a), Mackiewicz, J. S., and W. G. Deutsch. (1976), Malick, Robert W., Jr., and Wayne A. Potter. (1976), Mansueti, A. J., and J. D. Hardy. (1967), Massé, G. (1977), Mayhew, J. (1964), McAllister, Don E., and Brian W. Coad. (1974), Miller, Rudolph J., and H. E. Evans. (1965), Mills, Paul A., Jr., and Charles H. Hocutt, Jay R. Stauffer, Jr. (1978), Minckley, C. O. (1973), Nelson, Edward M. (1948), Nelson, E. W. (1876), Nelson, Joseph S. (1976), Nelson, Joseph S. (1984), Nickol, B. B., and N. Samuel. (1983), O'Donnell, D. J. (1935), Paetz, Martin J., and Joseph S. Nelson. (1970), Pearson, William D., and Louis A. Krumholz (1984), Pflieger, William L. (1971), Pflieger, William L. (1975), Phillips, Gary L., and William D. Schmid, James C. Underhill. (1982), Potter, Wayne A., and Robert W. Malick, Jr., Janet L. Polk. (1976), Priegel, G. R. (1967), Propst, David L., and Clarence A. Carlson. (1986), Richardson, Laurence R. (1938), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Robinson, G. L., and L. A. Jahn. (1980), Savitz, J., and L. G. Bardygula, L. Scoma. (1989), Scott, W. B. (1954), Scott, W. B. (1958), Scott, W. B. (1967), Scott, W. B., and E. J. Crossman. (1969), Scott, W. B., and E. J. Crossman. (1973), Smith, C. Lavett. (1986), Smith, Philip W. (1965), Smith, Philip W. (1973), Smith, Philip W. (1979), Snyder, D. E. (1975), Sparks, Richard E., and William C. Starrett. (1975), Sprules, W. M., and K. H. Doan. (1947), Sterba, Günther. (1983), Stewart, Kenneth W., and Iain M. Suthers, Kelly Leavesley. (1985), Swingle, W. E. (1965), Szalai, A. J., and G. V. Danell, T. A. Dick. (1988), Szalai, A. J., and T. A. Dick. (1987a), Szalai, A. J., and T. A. Dick. (1987b), Thompson, Peter. (1980), Trautman, Milton B. (1957), Vanicek, D. (1961), Walden, Howard T., 2d. (1964), Welter, Wilfred A. (1938), Werner, Robert G. (1976a), Werner, Robert G. (1976b), Werner, Robert G. (1980), Williams, D. D., and M. J. Ulmer. (1970), Wooding, Frederick H. (1959), Woodward, R. L., and T. E. Wissing. (1976),

Carpiodes cyprinus cyprinus (Le Sueur).

Eastern quillback carpsucker.

Clay, W. M. (1975), Hubbs, Carl L., and Karl F. Lagler. (1947), Hubbs, Carl L., and Karl F. Lagler. (1974), Trautman, Milton B. (1957), Trautman, Milton B. (1981),

Carpiodes cyprinus hinei Trautman, 1956.
Central Quillback Carpsucker.
Clay, W. M. (1975), Hubbs, Carl L., and Karl F. Lagler. (1974), Larimore, R. W., and P. W. Smith. (1963), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Smith, Philip W. (1979), Trautman, Milton B. (1956), Trautman, Milton B. (1957), Trautman, Milton B. (1981),

Carpiodes cyprinus thompsoni.
Carlander, Kenneth D. (1948), Hubbs, Carl L. (1945), Trautman, Milton B. (1981), Wickliff, Edward L., and Milton B. Trautman. (1934),

Carpiodes damalis Girard, 1856.
Girard, C. F. (1857), Hubbs, Carl L., and J. D. Black. (1940), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Seth Eugene Meek. (1885), Meek, Seth Eugene. (1894),

Carpiodes difformis Cope, 1870.
Blunt-Nosed River Carp.
Blatchley, W. S. (1938), Cope, Edward Drinker. (1870), Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Fowler, Henry Weed. (1945), Grinham, T., and D. K. Cone. (1990),.Hoffman, Glenn L. (1967), Jones, David T. (1929), Jordan, David Starr. (1878d), Jordan, David Starr. (1929), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883), Jordan, David Starr, and Seth Eugene Meek. (1885), Larimore, R. W., and P. W. Smith. (1963), Meek, Seth Eugene, and S. F. Hildebrand. (1910), Smith, Philip W. (1979), Trautman, Milton B. (1981),

Carpiodes elongatus Meek.
Hubbs, Carl L., and J. D. Black. (1940), Meek, Seth Eugene. (1904),

Carpiodes forbesi Hubbs.
Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Berner, Lester M. (1948), Eddy, Samuel. (1969), Gerking, Shelby D. (1955), Hubbs, Carl L. (1930), Hubbs, Carl L. (1945), Minckley, W. L. (1959), Nelson, Edward M. (1948), Simon, James R. (1946), Smith, Philip W. (1979), Trautman, Milton B. (1981), Williams, D. D., and M. J. Ulmer. (1970),

Carpiodes grayi Cope, 1870.
Cope, Edward Drinker. (1870), Fowler, Henry Weed. (1904), Hubbs, Carl L., and J. D. Black. (1940), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Seth Eugene Meek. (1885),

Carpiodes labiosus Meek, 1904.
Meek, Seth Eugene. (1904),

Carpiodes meridonalis.
Nelson, Edward M. (1948),

Carpiodes microstomus Meek.
Hubbs, Carl L., and J. D. Black. (1940), Meek, Seth Eugene. (1904),

Carpiodes nummifer Cope, 1870.
Cope, Edward Drinker. (1870),

Carpiodes selene Cope, 1870.

Cope, Edward Drinker. (1870), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Seth Eugene Meek. (1885), Smith, Philip W. (1979),

Carpiodes taurus Agassiz, 1854.
Agassiz, John Louis Rodolphe. (1854), Günther, Albert C. (1868), Jordan, David Starr, and Barton Warren Evermann. (1896),

Carpiodes thomsoni Agassiz, 1855.
Jordan, David Starr, and Seth Eugene Meek. (1885),

Carpiodes thompsoni Agassiz, 1855.
Lake Carp.
Agassiz, John Louis Rodolphe. (1855), Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Günther, Albert C. (1868), Hubbs, Carl L. (1930), Jordan, David Starr. (1878d), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Barton Warren Evermann. (1905), Jordan, David Starr, and Charles Henry Gilbert. (1883), Smith, Philip W. (1979), Trautman, Milton B. (1981),

Carpiodes timidus Baird and Girard, 1854.
Jordan, David Starr, and Seth Eugene Meek. (1885),

Carpiodes tumidum Baird and Girard, 1854.
Clay, W. M. (1975),

Carpiodes tumidus Baird and Girard, 1854.
Hubbs, Carl L., and J. D. Black. (1940), Jordan, David Starr, and Barton Warren Evermann. (1896), Nelson, Edward M. (1948),

Carpiodes urus Agassiz, 1854.
Agassiz, John Louis Rodolphe. (1854), Günther, Albert C. (1868), Jordan, David Starr, and Barton Warren Evermann. (1896),

Carpiodes vaca Agassiz, 1854.
Agassiz, John Louis Rodolphe. (1854), Günther, Albert C. (1868), Jordan, David Starr, and Barton Warren Evermann. (1896),

Carpiodes velifer (Rafinesque, 1820).
Highfin carpsucker, Quillback, Silver Carp, Spearfish, Sailfish, Skimback.
Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Bailey, Reeve M., and Howard E. Winn, C. Lavett Smith. (1954), Barnickol, P. G., and W. C. Starrett. (1951), Bauer, Bruce H., and Branley A. Branson, Strant T. Colwell. (1978), Becker, George C. (1976), Becker, George C. (1983), Beecher, H. A. (1980), Berner, Lester M. (1948), Blatchley, W. S. (1938), Boschung, Herbert T., Jr., and James D. Williams, Daniel W. Gotshall, David K. Caldwell, Melba C. Caldwell, Carol Nehring, Jordan Verner. (1983), Branson, Branley A., and Donald L. Batch. (1974), Breder, C. M., Jr., and D. E. Rosen. (1966), Bur, M. T. (1976), Cahn, A. R. (1927), Carlander, Kenneth D. (1969), Chien, Shia Ming, and Wilmer A. Rogers. (1970), Clay, W. M. (1975), Cleary, R. E. (1956), Cooper, Edwin Lavern. (1983), Cornelius, R. R. (1966), Cross, Frank B. (1967), Cross, Frank B., and Joseph T. Collins. (1975), Curry, Kevin D., and Anne Spacie. (1979), Deacon, James Everett. (1960), Deacon, James Everett. (1961), Douglas, Neil H. (1974), Eastman, Joseph T. (1977), Eddy, Samuel. (1957), Eddy, Samuel. (1969), Eddy, Samuel, and James C. Underhill. (1974), Ferris, Stephen D., and Gregory S. Whitt. (1978), Forbes, Stephen Alfred. (1884), Forbes, Stephen Alfred., and Robert Earl Richardson. (1908),

Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Goode, C. Brown, and Theodore Nicholas Gill. (1903), Günther, Albert C. (1868), Hall, Gordon E., and R. M. Jenkins. (1953), Harlan, J. R., and E. B. Speaker. (1956), Harrison, H. M. (1950),.Hoffman, Glenn L. (1967), Hubbs, Carl L. (1926), Hubbs, Carl L., and Karl F. Lagler. (1974), Jenkins, Robert M. (1953b), Jenkins, Robert M., and E. M. Leonard, G. E. Hall. (1952), Jones, David T. (1929), Jordan, David Starr. (1878a), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Barton Warren Evermann. (1905), Jordan, David Starr, and Seth Eugene Meek. (1885), Krumholz, Louis A. (1943), Lagler, Karl F., and John E. Bardach, Robert Rush Miller. (1962), Large, T. (1903), Larimore, R. W., and P. W. Smith. (1963), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Lopinot, Alvin C. (1966a), Meek, Seth Eugene, and S. F. Hildebrand. (1910), Miller, Rudolph J., and H. E. Evans. (1965), Miller, Rudolph J., and Henry W. Robinson. (1973), Mills, Paul A., Jr., and Charles H. Hocutt, Jay R. Stauffer, Jr. (1978), Nelson, Edward M. (1948), Nelson, E. W. (1876), O'Donnell, D. J. (1935), Pearson, William D., and Louis A. Krumholz (1984), Pflieger, William L. (1971), Pflieger, William L. (1975), Phillips, Gary L., and William D. Schmid, James C. Underhill. (1982), Proffitt, M. A., and R. S. Benda. (1971), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Rogers, Wilmer A. (1967), Smith, Philip W. (1965), Smith, Philip W. (1971), Smith, Philip W. (1973), Smith, Philip W. (1979), Smith, Philip W., and A. C. Lopinot, W. L. Pflieger. (1971), Swingle, W. E. (1965), Trautman, Milton B. (1957), Trautman, Milton B. (1981), Vanicek, D. (1961), Ward, C. M. (1960), Werner, Robert G. (1976a), Werner, Robert G. (1976b), Williams, D. D., and M. J. Ulmer. (1970), Williams, E. H., Jr., and W. A. Rogers. (1984), Wiltz, J. W. (1984), Woodward, R. L., and T. E. Wissing. (1976),

Carpiodes velifer tumidus.
Hubbs, Carl L., and J. D. Black. (1940),

Carpiodes vitulus Agassiz, 1854.
Agassiz, John Louis Rodolphe. (1854), Günther, Albert C. (1868), Jordan, David Starr, and Barton Warren Evermann. (1896),

Castostomus sonorensis Meek.
Villar, José Alvarez del. (1970),

Catastoma psephotum Cope, 1875.
Savage, Jay M. (1970),

Catastomus
Stannius, H. (1854),

Catastomus commersoni
Grinham, T., and D. K. Cone. (1990),

Catostomis bostonensis Le Sueur, 1817.
Jordan, David Starr, and Barton Warren Evermann. (1896), Le Sueur, Charles Alexandre. (1817),

Catostomites Schlaikjer, 1937.
Nelson, Edward M. (1948), Nelson, Edward M. (1949), Obruchev, D. V. (ed.) (1967),

Catostomites alaskensis Schlaikjer, 1937.
Schlaikjer, E. M. (1937), Uyeno, Teruya, and Robert Rush Miller. (1962),

Catostomus Le Sueur, 1817.

Fine-Scaled Suckers.

Allis, Edward Phelps. (1909), Allis, Edward Phelps. (1919), Andreasen, J. K. (1976), Arldt, Th. (1907), Beamish, R. J., and H. Tsuyuki. (1972), Beck, R. V. (1952), Boschung, Herbert T., Jr., and James D. Williams, Daniel W. Gotshall, David K. Caldwell, Melba C. Caldwell, Carol Nehring, Jordan Verner. (1983), Cockerell, T. D. A. (1910), Cockerell, T. D. A. (1911), Cockerell, T. D. A. (1913), Cockerell, T. D. A., and Edith M. Allison. (1909), Dawson, L. E., and K. L. Uebersax, M. A. Uebersax. (1978), Duméril, A. M. Constant. (1856), Dunham, A. E., and Gerald R. Smith, J. N. Taylor. (1979), Eaton, T. H., Jr. (1935), Edwards, L. F. (1926), Erman, D. C. (1973), Erman, D. C. (1986), Eschmeyer, William N. (1990), Gregory, William K. (1933), Griffith, J. S., and T. R. Tiersch. (1989), Günther, Albert C. (1868), Hansel, H. C., and S. D. Duke, D. T. Lofy, G. A. Gray. (1988), Hay, Oliver Perry. (1902), Hay, Oliver Perry. (1929), Heilprin, Angelo. (1887), Hilgard, Theodore Charles. (1858), Hilgard, Theodore Charles. (1860),.Hoffman, Glenn L. (1967), Hogman, W. J. (1973), Holey, M., and B. Hollender, M. Imhof, R. Jesien, R. Konopacky, M. Toneys, D. Coble. (1980), Hubbs, Carl L., and W. I. Follett, Lillian J. Dempster. (1979), Hubbs, Carl L., and Laura C. Hubbs, R. E. Johnson. (1943), Hubbs, Carl L., and Laura C. Hubbs, Robert Rush Miller. (1974), Hyrtl, Carl Joseph. (1862), Iwai, Tamotsu. (1963), Jollie, Malcolm. (1962), Jordan, David Starr. (1885b), Jordan, David Starr. (1923), Jordan, David Starr, and Barton Warren Evermann. (1917), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883), Kayton, R. J., and D. C. Kritsky, R. C. Tobias. (1979), Kimmel, Peter G. (1975), Koehn, Richard K. (1968), Koehn, Richard K. (1969), Lagler, Karl F., and John E. Bardach, Robert Rush Miller. (1962), Mackiewicz, J. S. (1976), Madsen, James H., Jr., and W. E. Miller. (1979), McClellan, P. H. (1977), McMaster, D. and Y. Kobayashi, J. Rivier, K. Lederis. (1986), McPhail, J. D. (1987), Meek, Seth Eugene. (1894), Miller, Robert Rush. (1958), Miller, Robert Rush. (1981), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Moyle, Peter B., and Joseph J. Cech, Jr. (1982), Nei Menggu Zizhi Qu Dizhi Ju, and Dongbei Dizhi Kexue Yanjiusuo. (1976), Nelson, Edward M. (1948), Nelson, Edward M. (1949), Nelson, Joseph S. (1976), Nelson, Joseph S. (1984), Orr, William N., and Elizabeth L. Orr. (1981), Pister, Edwin P. (1981), Platts, W. S., and F. E. Partridge. (1983), Ramaswami, L. S. (1957), Regan, Charles Tate. (1922), Richardson, Laurence R. (1942), Romer, Alfred Sherwood. (1966), Sagemehl, M. (1884), Sagemehl, M. (1891), Scharff, R. F. (1911), Schneidervin, Roger W., and Wayne A. Hubert. (1986), Smith, Gerald R. (1965), Smith, Gerald R. (1966), Smith, Gerald R. (1981a), Smith, Gerald R. (1981b), Smith, S. H. (1968), Uyeno, Teruya, and Robert Rush Miller. (1962), Weisel, George F. (1967a), Wells, La Rue, and A. L. McLain. (1973), White, W. J., and R. J. Beamish. (1972), Woodward, A. Smith. (1901), Wydoski, Richard S., and Richard R. Whitney. (1979),

Catostomus alticolus Cope, 1874.

Cope, Edward Drinker. (1874c), Cope, Edward Drinker, and H. C. Yarrow. (1875), Jordan, David Starr, and Barton Warren Evermann. (1896),

Catostomus anisurus Rafinesque, 1820.

Ohio Carp sucker.

Jordan, David Starr, and Barton Warren Evermann. (1896), Rafinesque, Constantine Samuel. (1820b), Smith, Philip W. (1979),

Catostomus aræopus Jordan, 1878.

Gilbert, Charles Henry. (1893), Jordan, David Starr. (1878d), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883), Jordan, David Starr, and Henry W. Henshaw. (1878), Smith, Gerald R. (1966),

Catostomus ardens Jordan and Gilbert, 1880.

Utah Sucker, Mullet of Utah Lake.
Andreasen, J. K., and J. R. Barnes. (1975), Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Baxter, George T., and James R. Simon. (1970), Carlander, Kenneth D. (1969), Dunham, A. E., and Gerald R. Smith, J. N. Taylor. (1979), Eddy, Samuel. (1957), Eddy, Samuel. (1969), Evans, R. S., and R. A. Heckmann, J. Palmieri. (1976), Goode, C. Brown, and Theodore Nicholas Gill. (1903),.Hoffman, Glenn L. (1967), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Barton Warren Evermann. (1905), Jordan, David Starr, and Charles Henry Gilbert. (1880), Jordan, David Starr, and Charles Henry Gilbert. (1883), Kayton, R. J., and D. C. Kritsky, R. C. Tobias. (1979), Kent, J. C., and D. W. Johnson. (1979a), Kent, J. C., and D. W. Johnson. (1979b), La Bar, G. W. (1969), La Rivers, Ira. (1962), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Linton, Edwin. (1891), McConnell, W. J., and W. J. Clark, W. F. Sigler. (1957), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Nelson, Edward M. (1948), Palmieri, J., and R. Heckmann. (1976), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Simpson, James C., and Richard L. Wallace. (1982), Smith, Gerald R. (1966), Smith, Gerald R. (1981a), Smith, Gerald R., and W. L. Stokes, K. F. Horn. (1968), Smith, Hugh M., and William Converse Kendall. (1921), Snyder, Darrel E., and Robert T. Muth. (1990), Walden, Howard T., 2d. (1964),

Catostomus arenarius Snyder.
Hubbs, Carl L., and Robert Rush Miller. (1951),

Catostomus arenatus Miller and Smith, 1967.
Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Miller, Robert Rush, and Gerald R. Smith. (1967), Smith, Gerald R. (1975),

Catostomus arizonæ (Gilbert and Scofield, 1898).
Gilbert, Charles Henry, and N. B. Scofield. (1898),

Catostomus aureolus Le Sueur, 1817.
DeKay, James Ellsworth. (1842), Günther, Albert C. (1868), Jordan, David Starr, and Barton Warren Evermann. (1896), Lachner, E. A. (1967), Le Sueur, Charles Alexandre. (1817), Rafinesque, Constantine Samuel. (1820b), Smith, Philip W. (1979),

Catostomus aurora Agassiz, 1850.
Agassiz, John Louis Rodolphe. (1850), Günther, Albert C. (1868), Jordan, David Starr, and Barton Warren Evermann. (1896),

Catostomus batrachops Cope, 1883.
Cope, Edward Drinker. (1883), Cope, Edward Drinker. (1889a), Cope, Edward Drinker. (1889b), Hay, Oliver Perry. (1927), Hussakof, Louis. (1908),

Catostomus bernardini Girard, 1857.
Yaqui sucker.
Günther, Albert C. (1868), Hubbs, Carl L., and Robert Rush Miller. (1951), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R.

Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Villar, José Alvarez del. (1970),

Catostomus bostoniensis Le Sueur, 1817.
Rafinesque, Constantine Samuel. (1820b),

Catostomus brevirostris (Cope, 1879).
Andreasen, J. K. (1976), Jordan, David Starr, and Barton Warren Evermann. (1896), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980),

Catostomus bubalus (Rafinesque, 1818).
Brown Buffalo-Fish.
Bailey, R. M., and W. N. Eschmeyer. (1988), Günther, Albert C. (1868), Jordan, David Starr, and Barton Warren Evermann. (1896), Kirtland, Jared Potter. (1838), Leidy, Joseph. (1875), Opinion 1582. (1990),.Rafinesque, Constantine Samuel. (1820b), Trautman, Milton B. (1981),

Catostomus cahita Siebert and Minckley, 1986.
Siebert, Darrell J., and W. L. Minckley. (1986),

Catostomus carpio Rafinesque, 1820; and, Valenciennes, 1844. Two different species described under the same name.
Olive Carp sucker.
Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Günther, Albert C. (1868), Jordan, David Starr. (1885a), Rafinesque, Constantine Samuel. (1820b), Smith, Philip W. (1979), Trautman, Milton B. (1981), Valenciennes, Achille. (1844),

Catostomus catostomi. Rabeni, C. F., and J. G. Stanley. (1979),

Catostomus catostomus (Forster, 1773).
Longnose sucker, Long-Nosed Sucker, Northern sucker, Red Sucker.
Anderson, E. D., and L. L. Smith, Jr. (1971), Anonymous. (1964), Bailey, B. E., and A. W. Lantz, P. J. Schmidt. (1951), Bailey, M. M. (1969), Bailey, Reeve M., and Marvin O. Allum. (1962), Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Bailey, Reeve M., and Gerald R. Smith. (1981), (1954), Bangham, Ralph V., and James R. Adams. (1954), Barton, B. A. (1980), Barton, B. A., and B. F. Bidgood. (1980), Bassett, H. N. (1957), Baxter, George T., and James R. Simon. (1970), Beamish, R. J., and H. Tsuyuki. (1972), Becker, George C. (1983), Bennett, G. W., and W. F. Childers. (1966), Bensley, B. A. (1915), Beverly-Burton, Mary. (1984), Birt, T. P., and R. E. Dillinger, Jr., J. M. Green, W. S. Davidson. (1990), Black, Edgar C. (1953), Black, Edgar C. (1955), Bligh, E. G. (1970), Bligh, E. G. (1971), Boschung, Herbert T., Jr., and James D. Williams, Daniel W. Gotshall, David K. Caldwell, Melba C. Caldwell, Carol Nehring, Jordan Verner. (1983), Boucher, R., and R. Schetagne, E. Magnin. (1985), Breder, C. M., Jr., and D. E. Rosen. (1966), Brett, J. R., and A. L. Pritchard. (1946b), Brown, C. J. D. (1971), Brown, C. J. D., and R. J. Graham. (1954), Cameron, J. N. (1974), Cameron, J. N. (1975), Canton, S. P., and L. D. Cline, R. A. Short, J. V. Ward. (1984), Carl, G. Clifford, and Wilbert Amie Clemens, Casimir Charles Lindsey. (1977), Carlander, Kenneth D. (1944b), Carlander, Kenneth D. (1969), Clemens, W. A. (1939), Clemens, W. A., and J. R. Dymond, N. K. Bigelow. (1923), Clemens, W. A., and J. R. Dymond, N. K. Bigelow, F. B. Adamstone, W. J. K. Harkness. (1923), Clemens, W. A., and D. S. Rawson, J. L. McHugh. (1939), Coble, Daniel W. (1966), Cooper, Edwin Lavern. (1983), Cope, O. B. (1969), Cumbra, Stephen L., and Don E. McAllister, Richard E. Morlan. (1981), Curtis, M. A., and

M. E. Rau. (1980), Dechtiar, A. O. (1969), Dechtiar, A. O. (1972a), Dechtiar, A. O., and W. A. Dillon. (1974), Dryer, W. R. (1966), Dunbar, M. J., and H. H. Hildebrand. (1952), Dunham, A. E., and Gerald R. Smith, J. N. Taylor. (1979), Dwyer, W. P., and C. E. Smith. (1989), Dymond, J. R. (1936), Eastman, Joseph T. (1977), Eddy, Samuel. (1957), Eddy, Samuel. (1969), Eddy, Samuel, and Kenneth D. Carlander. (1942), Eddy, Samuel, and T. Surber. (1947), Eddy, Samuel, and Roy C. Tasker, James C. Underhill. (1972), Eddy, Samuel, and James C. Underhill. (1974), Eder, S., and C. A. Carlson. (1977), Elsey, C. A. (1946), Emery, Lee. (1976), Ergens, R. and R. A. Kudentsova, Iu. A. Strelkov. (1980), Everhart, W. H., and W. R. Seaman. (1971), Evermann, Barton Warren, and E. L. Goldsborough. (1907), Ferris, Stephen D., and Gregory S. Whitt. (1978), Foerster, R. E. (1937), Forbes, Stephen Alfred., and Robert Earl Richardson. (1908), Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Forster, J. R. (1773), Fredeen, F. J. H., and J. G. Saha, L. M. Royer. (1971), Fujihara, M. P. and F. P. Hungate. (1972), Fuiman, Lee A., and D. C. Witman. (1979), Gadd, Ben. (1986), Geen, G. H., and T. G. Northcote, G. F. Hartman, C. C. Lindsey. (1966), Girard, C. F. (1857), Godfrey, H. (1955), Goode, C. Brown, and Theodore Nicholas Gill. (1903), Gordon, D., and N. A. Croll, M. E. Rau. (1978), Greene, C. W. (1935), Grinham, T., and D. K. Cone. (1990), Hanek, G., and K. Molnar. (1974), Hansen, D. W. (1952), Harris, Roy H. D. (1952), Harris, Roy H. D. (1962), Harris, Roy H. D. (1963), Hart, J. L. (1931), Hathaway, R. P., and J. C. Herlevich. (1973), Hayes, M. L. (1955), Hayes, M. L. (1956), Hazel, P. P. (1978), Heckmann, R. A., and T. Carroll. (1985), Henderson, N. E., and R. E. Peter. (1969), Hendricks, M. L., and J. R. Stauffer, C. H. Hocutt, Jr., C. R. Gilbert. (1979), Hepworth, W. (1959), Hewson, L. C. (1959), Hinks, David. (1943), Hinks, David. (1957),.Hoffman, Glenn L. (1967), Hubbs, Carl L., and Karl F. Lagler. (1974), Hubbs, Carl L., and Leonard P. Schultz. (1932), Johnson, L. (1972), Johnson, L. (1975), Jordan, David Starr. (1878a), Jordan, David Starr. (1929), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Barton Warren Evermann. (1905), Kaiser, K. L. E. (1977), Kathrein, J. W. (1951), Kayton, R. J., and D. C. Kritsky, R. C. Tobias. (1979), Keleher, J. J. (1961a), Keleher, J. J. (1961b), Keleher, J. J. (1963), Keleher, J. J. (1967), Kendall, William Converse. (1914), Kendall, William Converse. (1918), Kendall, William Converse. (1924), Kendall, William Converse, and W. A. Dence. (1929), Kennedy, W. A. (1956), Lagler, Karl F., and John E. Bardach, Robert Rush Miller. (1962), Lalancette, L.-M., and E. Magnin. (1970), Large, T. (1903), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Li, M.-M., and Arai, H. P. (1988), Libosvarsky, J. (1970), Lindsey, Casimir Charles. (1956), Lindsey, Casimir Charles. (1957), Magnin, E. (1964), Mayr, Ernst. (1966), Mayr, Ernst. (1971), McAllister, Don E. (1964), McAllister, Don E., and Brian W. Coad. (1974), McClane, Albert Jules. (1974), McConnell, J. A., and J. R. Brett. (1946), McPhail, J. D., and C. C. Lindsey. (1970), Meek, Alexander. (1916), Meek, Seth Eugene, and S. F. Hildebrand. (1910), Miller, R. B. (1947), Miller, Robert Rush. (1958), Miller, Rudolph J., and H. E. Evans. (1965), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Mitchell, Patricia, and Ellie Prepas. (1990), Montgomery, W. L., and S. D. McCormick, R. J. Naiman, F. G. Whoriskey, Jr., G. A. Black. (1983), Moring, John R., and Paul D. Eiler, Mary T. Negus, Elizabeth Gibbs. (1986), Morrison, K. A., and N. Therien, B. Coupal. (1985), Morrow, James E. (1980), Munro, J. A., and W. A. Clemens. (1937), Nall, G. H. (1930), Neave, F., and A. Bajkov. (1929), Nelson, Edward M. (1948), Nelson, Joseph S. (1965), Nelson, Joseph S. (1973), Nelson, Joseph S. (1976), Nelson, Joseph S. (1984), Nester, R. T., and T. P. Poe. (1984), Nichols, John Treadwell. (1943), Nikolsky, G. V. (1961), Novokshonov, Yu. D., and Yu. N. Dyakonov. (1980), O'Donnell, D. J. (1935), Paetz, Martin J., and Joseph S. Nelson. (1970), Peters, J. C. (ed.) (1964), Phillips, Gary L., and William D. Schmid, James C. Underhill. (1982), Porter, T. R., and D. M. Rosenberg, D. K. McGowan. (1974), Pugachev, O. N. (1980), Ramamoorthy, S., and J. W. Moore, L. George. (1985), Rawson, D. S. (1951), Rawson, D. S. (1957), Rawson, D. S. (1960), Rawson, D. S., and C. A. Elsey. (1950), Reigle, N. J., Jr. (1969b), Richardson, John R. (1836), Roberts, Wayne Emerson. (1975), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest

A. Lachner, Robert N. Lea, W. B. Scott. (1980), Sayigh, L., and R. Morin. (1986), Schmidt, P. J. (1949), Schoenthal, N. D. (1964), Schwalme, Karl, and William C. MacKay, Dieter Lindner. (1985), Scoppettone, G. Gary, and Mark Coleman, Gary A. Wedemeyer. (1986), Scott, W. B. (1954), Scott, W. B. (1958), Scott, W. B. (1967), Scott, W. B., and E. J. Crossman. (1969), Scott, W. B., and E. J. Crossman. (1973), Scruton, D. A. (1984), Siddiqi, M. N. (1981), Simpson, James C., and Richard L. Wallace. (1982), Sloley, B. D. (1988), Smith, C. Lavett. (1986), Smith, Gerald R. (1966), Smith, Gerald R. (1981b), Smith, Hugh M., and William Converse Kendall. (1921), Smith, John B., and Wayne A. Hubert. (1989), Smith, Philip W. (1965), Smith, Philip W. (1973), Smith, Philip W. (1979), Snyder, Darrel E., and Robert T. Muth. (1990), Spence, J. A., and B. N. Hynes. (1971), Srivastava, V. M. (1971), Stanley, D. R. (1988), Stenton, J. E. (1951), Sterba, Günther. (1983), Stuber, R. J. (1985), Threlfall, W. (1974), Threlfall, W., and G. Hanek. (1970), Tsuyuki, H., and E. Roberts, R. H. Kerr, J. F. Uthe, L. W. Clarke. (1967), Uthe, J. F. (1965), Vladykov, Vadim D. (1933), Walden, Howard T., 2d. (1964), Wallace, Ron R., and Peter J. McCart. (1984), Walton, B. D. (1980), Watson, T. G. (1981), Weisel, George F. (1957), Weisel, George F. (1962), Weisel, George F. (1967a), Wenzel, L. E., and T. H. Leik. (1956), Werner, Robert G. (1976a), Werner, Robert G. (1976b), Werner, Robert G. (1980), Whitehouse, Francis C. (1946), Willock, T. A. (1969), Withler, F. C. (1948), Wobeser, G., and N. O. Nielsen, R. H. Dunlop, F. M. Atton. (1970), Wooding, Frederick H. (1959), Wydoski, Richard S., and Richard R. Whitney. (1979), Wynne-Edwards, V. C. (1952), Yeager, Bruce L., and Kenneth J. Semmens. (1987), Zabik, M. E., and B. Olson, T. M. Johnson. (1978),

Catostomus catostomus camersoni.
Ramaswami, L. S. (1957),

Catostomus catostomus catostomus (Forster, 1773).
Eastern Longnose Sucker.
Backus, Richard H. (1957), Behnke, Robert J., and Ralph M. Wetzel. (1960), Carlander, Kenneth D. (1948), Dymond, J. R. (1937), Dymond, J. R. (1964), Dymond, J. R., and W. B. Scott. (1941), Eastman, Joseph T. (1980), Hubbs, Carl L., and Karl F. Lagler. (1941), Hubbs, Carl L., and Karl F. Lagler. (1947), Hubbs, Carl L., and Karl F. Lagler. (1974), McCabe, Britton C. (1943), Nelson, Edward M. (1955), Nichols, John Treadwell. (1930), Simon, James R. (1946), Smith, Philip W. (1979), Snyder, Richard C. (1949), Stenton, J. E. (1951), Toner, G. C. (1933), Trautman, Milton B. (1981), Weisel, George F. (1958), Weisel, George F., Jr., and H. William Newman. (1951),

Catostomus catostomus griseus Girard.
Eddy, Samuel. (1969), Hendricks, Lawrence J. (1952), Schultz, Leonard P. (1936), Schultz, Leonard P. (1947), Simon, James R. (1946), Smith, Gerald R. (1966),

Catostomus catostomus lacustris Bajkov, 1927.
Bajkov, A. (1927), Hubbs, Carl L., and Leonard P. Schultz. (1932),

Catostomus catostomus nannomyzon Mather.
Behnke, Robert J., and Ralph M. Wetzel. (1960), Hubbs, Carl L., and Karl F. Lagler. (1941), Hubbs, Carl L., and Karl F. Lagler. (1947), Hubbs, Carl L., and Karl F. Lagler. (1974), McCabe, Britton C. (1943), Smith, C. Lavett. (1986),

Catostomus catostomus rostratus (Tilesius, 1813).
Berg, Leo Simonovich. (1936), Chranilov, Ivar N. S. (1926), Nelson, Edward M. (1948), Novikov, A. S., and E. A. Streletskaya. (1966), Obraztsov, A. N., and O. B. Semenova. (1982), Polovova, T. P. (1970), Shilin, Yu A. (1973), Tilesius von Tilenau, Wilhelm Gottlieb. (1813), Velichko, A. M., and S. B. Podushka. (1985), Velichko, A. M., and B. B.

Voloshenko, D. P. Bulanov, A. A. Salazkin. (1979), Voloshenko, B. B., and A. M. Velichko. (1979), Walters, V. (1955),

Catostomus chloropteron Abbott, 1861.
Abbott, Charles Conrad. (1861), Günther, Albert C. (1868), Jordan, David Starr, and Barton Warren Evermann. (1896),

Catostomus (Pantosteus) clarii.
Powers, D. A. (1972),

Catostomus clarki Baird and Girard, 1854.
Desert sucker. Clarkson, R. W., and W. L. Minckley. (1988), Crabtree, C. B., and Donald G. Buth. (1987), Cross, Jeffrey N. (1985), Deacon, J. E., and P. B. Schumann, E. L. Stuenkel. (1987), Eddy, Samuel. (1969), Greger, P. D., and J. E. Deacon. (1988), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Mpoame, M., and J. N. Rinne. (1983), Rinne, J. N. (1985b), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Smith, Gerald R. (1965), Smith, Gerald R. (1966), Wier, W., and L. F. Mayberry, H. G. Kinzer, P. R. Turner. (1983),

Catostomus clarki intermedius.
Williams, C. D., and J. E. Williams. (1982),

Catostomus clarki **X** *Catostomus insignis.*
Clarkson, R. W., and W. L. Minckley. (1988), Smith, Gerald R. (1966),

Catostomus clarkii Baird and Girard, 1854.
Amin, Omar M. (1968), Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Fisher, S. G., and D. E. Busch, N. B. Grimm. (1981), Powers, D. A., and A. B. Edmundson. (1972), Powers, D. A., and A. B. Edmundson. (1973), Smith, Gerald R. (1966),

Catostomus columbianus (Eigenmann and Eigenmann, 1893).
Bridgelip Sucker.
Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Carl, G. Clifford, and Wilbert Amie Clemens, Casimir Charles Lindsey. (1977), Dauble, Dennis D. (1980), Dauble, Dennis D. (1986), Dauble, Dennis D., and R. L. Buschbom. (1981), Dunham, A. E., and Gerald R. Smith, J. N. Taylor. (1979), Eddy, Samuel. (1969), Ferris, Stephen D., and Gregory S. Whitt. (1978),.Hoffman, Glenn L. (1967), Hubbs, Carl L., and Robert Rush Miller. (1951), Johnson, A., and D. Norton, B. Yake. (1988), La Rivers, Ira. (1962), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Lindsey, Casimir Charles. (1957), Miller, Robert Rush, and Ralph G. Miller. (1948), Miller, Rudolph J., and H. E. Evans. (1965), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Nelson, Edward M. (1955), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Rogers, I. H., and H. W. Mahood. (1982), Scott, W. B. (1958), Scott, W. B., and E. J. Crossman. (1969), Scott, W. B., and E. J. Crossman. (1973), Simpson, James C., and Richard L. Wallace. (1982), Smith, Gerald R. (1965), Smith, Gerald R. (1966), Smith, Gerald R. (1981a), Wydoski, Richard S., and Richard R. Whitney. (1979),

Catostomus columbianus columbianus.
Dunham, A. E., and Gerald R. Smith, J. N. Taylor. (1979), Smith, Gerald R. (1966),

Catostomus columbianus hubbsi Smith, 1966.
Dunham, A. E., and Gerald R. Smith, J. N. Taylor. (1979), Smith, Gerald R. (1966),

Catostomus columbianus palouseanus Schultz and Thompson, 1936.
Miller, Robert Rush, and Ralph G. Miller. (1948), Smith, Gerald R. (1966),

Catostomus columnaris Sytchevskaya, 1986.
Sytchevskaya, E. K. (1986),

Catostomus comersoni.
Bennett, D. K. (1979),

Catostomus commersoni (La Cepède, 1803).
White Sucker, Common Sucker, Fine-scaled sucker.
Aadland, L. P., and J.J. Peterka. (1981), Adams, C. C., and T. L. Hankinson. (1928), Adelman, I. R. (1980), Agassiz, John Louis Rodolphe. (1854), Ahlgren, M. O. (1990a), Ahlgren, M. O. (1990b), Amedjo, S. D., and John C. Holmes. (1990), Amin, Omar M. (1974), Amin, Omar M. (1975), Amin, Omar M. (1977a), Amin, Omar M. (1977b), Amin, O. M. (1981), Amin, O. M. (1984), Amin, Omar M. (1986a), Amin, Omar M. (1986b), Anderson, I. G., and G. A. D. Haslewood. (1970), Andrews, C. W. (1946), Anonymous. (1958b), Anonymous. (1964), Anonymous. (1965a), Anonymous. (1972), Anonymous. (1978), Anonymous. (1981), Bailey, Reeve M., and Marvin O. Allum. (1962), Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Bailey, Reeve M., and Gerald R. Smith. (1981), (1954), Baker, J. P. (1981), Ball, R. C. (1949), Ballard, W. W. (1982), Bangham, Ralph V., and James R. Adams. (1954), Barber, D. L., and J. E. Mills Westermann. (1975a), Barber, D. L., and J. E. Mills Westermann. (1975b), Barber, D. L., and J. E. Mills Westermann. (1983), Barber, D. L., and J. E. Mills Westermann. (1985), Barber, D. L., and J. E. Mills Westermann. (1986), Barclay, L. A., Jr. (1974), Barnhart, R. (1955), Barton, B. A. (1980), Bassett, H. N. (1957), Basu, Satyendra Prasanna. (1959), Bauer, Bruce H., and Branley A. Branson, Strant T. Colwell. (1978), Baumann, Paul C. (1984), Baxter, George T., and James R. Simon. (1970), Beamish, R. J. (1972a), Beamish, R. J. (1972b), Beamish, R. J. (1973), Beamish, R. J. (1974), Beamish, R. J., and E. J. Crossman. (1977), Beamish, R. J., and H. H. Harvey. (1969), Beamish, R. J., and H. H. Harvey. (1972), Beamish, R. J., and W. L. Lockhart, J. C. Van Loon, Harold H. Harvey. (1975), Beamish, R. J., and G. A. McFarlane. (1983), Beamish, R. J., and H. Tsuyuki. (1972), Bean, L. S. (1936), Beatty, S. A. (1937), Becker, George C. (1959), Becker, George C. (1983), Bell, D. A., and Mary Beverly-Burton. (1980), Bendell-Young, Leah I., and Harold H. Harvey. (1986a), Bendell-Young, Leah I., and Harold H. Harvey. (1986b), Bendell-Young, Leah I., and Harold H. Harvey. (1989), Bendell-Young, Leah I., and Harold H. Harvey, Jeffrey F. Young. (1986), Bennett, D. H., and O. E. Maughan, D. B. Jester, Jr. (1985), Bensley, B. A. (1915), Bernhardt, R. W. (1957), Bernstein, J. W., and S. M. Swanson. (1989), Berst, A. H. (1961), Beverly-Burton, Mary. (1984), Birkenholz, D., and A. W. Fritz. (1956), Black, G. A., and J. M. Fraser. (1984), Black, J. J. (1984), Black, J. J., and M. Holmes, P. P. Dymerski, W. F. Zapisek. (1979), Blouin, E. F., and A. D. Johnson, D. G. Dunlap, D. K. Spiegel. (1984), Borgmann, Uwe, and Karen M. Ralph. (1986a), Borgmann, Uwe, and Karen M. Ralph. (1986b), Boschung, Herbert T., Jr., and James D. Williams, Daniel W. Gotshall, David K. Caldwell, Melba C. Caldwell, Carol Nehring, Jordan Verner. (1983), Bower, S. M., and P. T. K. Woo. (1977a), Bower, S. M., and P. T. K. Woo. (1977b), Bower, S. M., and P. T. K. Woo. (1979), Bradley, R. W., and J. R. Morris. (1986), Branson, Branley A., and Donald L. Batch. (1974), Breder, C. M., Jr.,

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Catostomus commersoni commersoni (La Cepède, 1803).

Common White Sucker.

Backus, Richard H. (1957), Behnke, Robert J., and Ralph M. Wetzel. (1960), Carbine, W. F. (1943), Dobie, J. (1969), Eastman, Joseph T. (1980), Gee, R. J. (1989), Knapp, Leslie W., and William J. Richards, Robert Victor Muller, Neal R. Foster. (1963), Lalancette, L.-M. (1975b), Larimore, R. W., and P. W. Smith. (1963), Macphee, Craig. (1960), McCleave, James David. (1964), Nelson, Edward M. (1955), Oseid, D. M. (1977), Personius, Robert Giles, and Samuel Eddy. (1955), Pfeiffer, Roman A. (1955), Reed, Roger J. (1959), Roth, R. R. (1972), Smith, C. Lavett. (1958), Smith, Gerald R. (1963), Smith, Philip W. (1963), Trautman, Milton B. (1981), Tremblay, L. (1962), Verdon, R., and E. Magnin. (1977a), Verdon, R., and E. Magnin. (1977b), Waxman, J. B. (1975),

Catostomus commersoni suckleyi.

Eastman, Joseph T. (1980), Smith, Philip W. (1979),

Catostomus commersoni sucklii.

Simon, James R. (1946),

Catostomus commersoni utawana Mather, 1890.

Dwarf white sucker.

Beamish, R. J., and E. J. Crossman. (1977), Eastman, Joseph T. (1980), Smith, C. Lavett. (1986),

Catostomus commersonii (La Cepède, 1803).

Common Sucker, Fine-Scaled Sucker, White Sucker, Brook Sucker.

Berst, A. H., and A. M. McCombie. (1963), Bigelow, N. K. (1923), Blatchley, W. S. (1938), Crawford, D. R. (1923), Culbertson, G. (1904), Dugal, L. C. (1962), Dunbar, M. J., and H. H. Hildebrand. (1952), Evermann, Barton Warren, and U. O. Cox. (1894), Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Foskett, D. R. (1947), Fraser, D. I., and A. Mannan, W. J. Dyer. (1962), Hallam, J. C. (1959), Hart, J. S. (1947), Hildebrand, Samuel F., and William C. Schroeder. (1923), Hinks, David. (1943), Hubbs, Carl L., and C.

W. Creaser. (1924), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Barton Warren Evermann. (1905), Jordan, David Starr, and Charles Henry Gilbert. (1883), Keleher, J. J. (1961a), Keleher, J. J. (1963), Kendall, William Converse. (1914), Kennedy, W. A. (1956), La Monte, Francesca. (1958), Lantz, A. (1962), Lawler, G. H. (1964), Lawler, G. H., and G. F. M. Smith. (1963), Lawler, G. H., and N. H. F. Watson. (1958), Lindsey, Casimir Charles. (1956), Lower, A. R. M. (1915), MacKay, William C., and D. D. Beatty. (1968a), MacKay, William C., and D. D. Beatty. (1968b), Mavor, J. W. (1915), McAllister, Don E., and Brian W. Coad. (1974), McConnell, J. A., and J. R. Brett. (1946), McKenzie, R. A. (1959), Meek, Seth Eugene, and S. F. Hildebrand. (1910), Melvill, C. D. (1915), Miller, Rudolph J., and H. E. Evans. (1965), Nelson, E. W. (1878), Nelson, Joseph S. (1966), Nelson, Joseph S. (1968), Nichols, John Treadwell, and William K. Gregory. (1918), Phillips, R. J., and Henry Weed Fowler. (1913), Rabb, L., and L. A. McDermott. (1962), Reighard, Jacob E. (1920), Saunders, Richard L. (1961), Saunders, Richard L. (1962), Schmidt, P. J. (1949), Schwartz, T. R., and D. L. Stalling. (1987), Shelford, Victor E. (1937), Smith, M. W. (1935), Smith, M. W. (1937), Smith, M. W. (1938), Smith, M. W. (1939), Stewart, N. H. (1927), Voth, D. R., and O. R. Larson. (1968), Withler, F. C., and J. A. McConnell, V. H. McMahon. (1949), Wynne-Edwards, V. C. (1952),

Catostomus commersonii commersonii.

Dobie, J. R., and O. L. Meehean, G. N. Washburn. (1948), Fowler, Henry Weed. (1945), Hubbs, Carl L. (1941), Hubbs, Carl L., and Karl F. Lagler. (1941), Hubbs, Carl L., and Karl F. Lagler. (1947), Hubbs, Carl L., and Karl F. Lagler. (1974), Raney, Edward C. (1943),

Catostomus commersonni (La Cepède, 1803).

Fowler, Henry Weed. (1918), Krumholz, Louis A. (1956), Richardson, Laurence R. (1944),

Catostomus commersonnii (La Cepède, 1803).

Common Sucker, White Sucker.

Carlander, Kenneth D. (1948), Carlander, Kenneth D., and Lloyd L. Smith, Jr. (1945), Dence, Wilford A. (1940), Dymond, J. R. (1937), Dymond, J. R., and W. B. Scott. (1941), Ellis, Max M., and G. C. Roe. (1917), Evermann, Barton Warren. (1916), Fowler, Henry Weed. (1914b), Fowler, Henry Weed. (1914c), Fowler, Henry Weed. (1916b), Fowler, Henry Weed. (1917), Fowler, Henry Weed. (1921), Fowler, Henry Weed. (1925), Friedrich, George W. (1933), Geen, G. H., and T. G. Northcote, G. F. Hartman, C. C. Lindsey. (1966), Gerking, Shelby D. (1947), Haas, Robert L. (1943), Hankinson, T. L. (1923), Hubbs, Carl L., and Karl F. Lagler. (1974), Hubbs, Carl L., and A. McLaren White. (1923), Jones, David T. (1929), Jordan, David Starr. (1929), Keim, Thomas D. (1915), Koster, William J. (1939), Krumholz, Louis A. (1943), Lindeborg, R. G. (1941), McCabe, Britton C. (1943), Pickens, A. L. (1928), Raney, Edward C. (1943), Raney, Edward C. (1952), Raney, Edward C., and Robert M. Roecker. (1947), Raney, Edward C., and D. A. Webster. (1942), Scott, W. B. (1954), Seaman, E. A. (1950), Shelford, Victor E. (1911a), Snyder, Richard C. (1949), Spoor, W. A. (1935), Spoor, W. A. (1938), Toner, G. C. (1933), Van Duzen, Evelyn M. (1939), Vladykov, Vadim D. (1942), Webster, Dwight A. (1944), Weed, Alfred Cleveland. (1921), Welsh, W. W. (1916), Welter, Wilfred A. (1938),

Catostomus commersonnii commersonnii.

Krumholz, Louis A. (1943), Nelson, Edward M. (1948), Raney, Edward C., and Ernest A. Lachner. (1946a), Snyder, Richard C. (1949),

Catostomus commersonnii suckleyi (Girard, 1857).

Hendricks, Lawrence J. (1952),

Catostomus commersonnii sucklii (Girard, 1857).

Ellis, Max M., and B. B. Jaffa. (1918), Hubbs, Carl L., and Laura C. Hubbs. (1947), Nelson, Edward M. (1948), Smith, Gerald R. (1966),

Catostomus commersonnii utawana Mather, 1890.

Dwarf white sucker.

Beamish, R. J., and E. J. Crossman. (1977), Dence, Wilford A. (1948), Hubbs, Carl L., and Karl F. Lagler. (1941), Hubbs, Carl L., and Karl F. Lagler. (1947), Hubbs, Carl L., and Karl F. Lagler. (1974), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Raney, Edward C., and D. A. Webster. (1942),

Catostomus communis.

Jordan, David Starr, and Barton Warren Evermann. (1896), Le Sueur, Charles Alexandre. (1817), Rafinesque, Constantine Samuel. (1820b),

Catostomus conchos Meek, 1902.

Hubbs, Carl L., and Leonard P. Schultz. (1932), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Meek, Seth Eugene. (1902), Meek, Seth Eugene. (1904), Villar, José Alvarez del. (1970),

Catostomus congestus Baird and Girard, 1855.

Baird, Spencer Fullerton, and Charles Girard. (1855), Jordan, David Starr, and Barton Warren Evermann. (1896),

Catotomus cristatus Cope, 1883.

Cope, Edward Drinker. (1883), Hay, Oliver Perry. (1902), Hay, Oliver Perry. (1927), Hay, Oliver Perry. (1929), Hussakof, Louis. (1908), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Smith, Gerald R. (1975), Uyeno, Teruya, and Robert Rush Miller. (1963),

Catostomus cypho Lockington, 1881.

Kirsch, Philip Henry. (1889), Lockington, William Neale. (1881),

Catostomus cyprinus Le Sueur, 1817.

Günther, Albert C. (1868), Jordan, David Starr, and Barton Warren Evermann. (1896), Le Sueur, Charles Alexandre. (1817), Rafinesque, Constantine Samuel. (1820b), Smith, Philip W. (1979),

Catostomus discobolus Cope, 1872.

Bluehead Sucker.

Andreasen, J. K., and J. R. Barnes. (1975), Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Baxter, George T., and James R. Simon. (1970), Bosley, C. E. (1960), Brienholt, J. C., and R. A. Heckmann. (1980), Buth, Donald G. (1983), Carlander, Kenneth D. (1969), Carter, John G., and Vincent A. Lamarra, Ronald J. Ryel. (1986), Cope, Edward Drinker. (1871), Crabtree, C. B., and Donald G. Buth. (1987), Dunham, A. E., and Gerald R. Smith, J. N. Taylor. (1979), Eddy, Samuel. (1957), Eddy, Samuel. (1969), Evans, R. S., and R. A. Heckmann, J. Palmieri. (1976), Ferris, Stephen D., and Gregory S. Whitt. (1978), Gilbert, Charles Henry, and N. B. Scofield. (1898), Hubbs, Carl L., and Leonard P. Schultz. (1932), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Maddux, H. R., and W. G. Kepner. (1988), McAda, Charles W., and Richard S. Wydoski. (1983), McAda, Charles W., and Richard S. Wydoski. (1985), McDonald, D. B., and P. A. Dotson. (1960), Nelson, Edward M. (1948), Palmieri, J., and R. Heckmann. (1976), Robins, C. Richard, and Reeve M. Bailey, Carl E.

Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Simpson, James C., and Richard L. Wallace. (1982), Smith, Gerald R. (1965), Smith, Gerald R. (1966), Smith, Gerald R. (1981a), Snyder, Darrel E., and Robert T. Muth. (1990),

Catostomus discobolus yarrowi (Jordan and Copeland, 1876).
Zuni Mountain sucker.
Crabtree, C. B., and Donald G. Buth. (1987), Smith, Gerald R., and J. G. Hall, R. K. Koehn, D. J. Innes. (1983),

Catostomus discobolus **X** *Catostomus platyrhynchus.*
Smith, Gerald R. (1966),

Catostomus duquesnei Le Sueur, 1817.
Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Le Sueur, Charles Alexandre. (1817),

Catostomus duquesni Le Sueur, 1817.
Pittsburgh Sucker, White Sucker.
Günther, Albert C. (1868), Jordan, David Starr, and Barton Warren Evermann. (1896), Rafinesque, Constantine Samuel. (1820b),

Catostomus duquesnii Le Sueur, 1817.
Günther, Albert C. (1868), Jordan, David Starr, and Barton Warren Evermann. (1896), Le Sueur, Charles Alexandre. (1817), Smith, Philip W. (1979),

Catostomus ellipticus Miller and Smith, 1967.
Smith, Gerald R. (1975),

Catostomus elongatus Le Sueur, 1817.
Long sucker, Brown sucker.
Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Günther, Albert C. (1868), Jordan, David Starr, and Barton Warren Evermann. (1896), Rafinesque, Constantine Samuel. (1820b), Smith, Philip W. (1979),

Catostomus erythrurus Rafinesque, 1818.
Red-tail sucker, Red-horse, Horse-fish, Horse-sucker.
Jordan, David Starr, and Barton Warren Evermann. (1896), Rafinesque, Constantine Samuel. (1818b), Rafinesque, Constantine Samuel. (1820b), Smith, Philip W. (1979),

Catostomus fasciatus Le Sueur.
Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Günther, Albert C. (1868), Jordan, David Starr, and Barton Warren Evermann. (1896),

Catostomus fasciolaris Rafinesque, 1820.
Rough-head Sucker, Pike sucker, Striped sucker.
Günther, Albert C. (1868), Jordan, David Starr, and Barton Warren Evermann. (1896), Rafinesque, Constantine Samuel. (1820b),

Catostomus fecundus Cope and Yarrow, 1875.
Webug Sucker.
Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Cope, Edward Drinker, and H. C. Yarrow. (1875), Eddy, Samuel. (1969), Goode, C. Brown, and Theodore Nicholas Gill. (1903),.Hoffman, Glenn L. (1967), Jordan, David Starr. (1878c),

Jordan, David Starr. (1878d), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1880), Jordan, David Starr, and Charles Henry Gilbert. (1883), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Nelson, Edward M. (1948), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Simon, James R. (1946),

Catostomus flexuosus Rafinesque, 1820.
Kentucky Sucker.
Clay, W. M. (1975), Günther, Albert C. (1868), Jordan, David Starr, and Barton Warren Evermann. (1896), Rafinesque, Constantine Samuel. (1820b),

Catostomus forsterianus Richardson, 1823.
Jordan, David Starr, and Barton Warren Evermann. (1896), Low, A. P. (1896), Richardson, John R. (1823), Richardson, John R. (1836),

Catostomus fumeiventris Miller, 1973.
Owens Sucker.
Crabtree, C. B., and D. G. Buth. (1981), Hubbs, Carl L., and W. I. Follett, Lillian J. Dempster. (1979), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Miller, Robert Rush. (1973), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Moyle, Peter B. (1976), Pister, Edwin P. (1981), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Soltz, David L., and Robert J. Naiman. (1978),

Catostomus generosus Girard, 1856.
Girard, C. F. (1857), Jordan, David Starr, and Barton Warren Evermann. (1896), Smith, Gerald R. (1966),

Catostomus gibbosus Le Sueur, 1817.
Günther, Albert C. (1868), Le Sueur, Charles Alexandre. (1817), Rafinesque, Constantine Samuel. (1820b),

Catostomus gila Kirsch, 1889.
Gilbert, Charles Henry, and N. B. Scofield. (1898), Goode, C. Brown, and Theodore Nicholas Gill. (1903), Jordan, David Starr, and Barton Warren Evermann. (1896), Kirsch, Philip Henry. (1889),

Catostomus gracilis Kirtland, 1838.
Jordan, David Starr, and Barton Warren Evermann. (1896), Kirtland, Jared Potter. (1838),

Catostomus griseus (Girard, 1856).
Ellis, Max M. (1934), Goode, C. Brown, and Theodore Nicholas Gill. (1903), Günther, Albert C. (1868), Hubbs, Carl L., and Leonard P. Schultz. (1932), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Barton Warren Evermann. (1905), Nelson, Edward M. (1948), Schultz, Leonard P. (1947), Smith, Gerald R. (1966),

Catostomus guzmaniensis Girard, 1856.
Girard, C. F. (1857), Jordan, David Starr, and Barton Warren Evermann. (1896), Smith, Gerald R. (1966),

Catostomus heckelii de Fil.
Cagnolaro, L., and C. Violani. (1988),

Catostomus hudsonius Le Sueur, 1817.

Günther, Albert C. (1868), Jordan, David Starr. (1878d), Jordan, David Starr, and Barton Warren Evermann. (1896), Le Sueur, Charles Alexandre. (1817), Rafinesque, Constantine Samuel. (1820b), Smith, Philip W. (1979),

Catostomus humboldtianus Snyder, 1908.

Hoffman, Glenn L. (1967), Snyder, John Otterbein. (1908c),

Catostomus insignis Baird and Girard, 1855.

Sonora sucker.

Amin, Omar M. (1968), Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Baird, Spencer Fullerton, and Charles Girard. (1855), Branson, Branley A., and Clarence J. McCoy, Jr., Morgan E. Sisk. (1960), Clarkson, R. W., and W. L. Minckley. (1988), Cope, Edward Drinker, and H. C. Yarrow. (1875), Eddy, Samuel. (1969), Hubbs, Carl L., and Robert Rush Miller. (1951), Hubbs, Carl L., and Robert Rush Miller. (1953), Jakle, M. D., and T. A. Gatz. (1984), Jordan, David Starr. (1878d), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883), Koehn, Richard K. (1966), Koster, William J. (1957), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Miller, Robert Rush, and H. E. Winn. (1951), Miller, Rudolph J., and H. E. Evans. (1965), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Mpoame, M., and J. N. Rinne. (1983), Nelson, Edward M. (1948), Nelson, Edward M. (1955), Powers, D. A. (1972), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Smith, Gerald R. (1966), Villar, José Alvarez del. (1970), Wier, W., and L. F. Mayberry, H. G. Kinzer, P. R. Turner. (1983),

Catostomus insignis **X** *Catostomus clarki*

Clarkson, R. W., and W. L. Minckley. (1988),

Catostomus labiatus Ayres, 1855.

Ayres, William O. (1855), Cope, Edward Drinker. (1883), Cope, Edward Drinker. (1889a), Cope, Edward Drinker. (1889b), Günther, Albert C. (1868), Hay, Oliver Perry. (1902), Jordan, David Starr. (1878d), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883),

Catostomus lactarius Girard, 1857.

Girard, C. F. (1857), Hubbs, Carl L., and Leonard P. Schultz. (1932), Jordan, David Starr, and Barton Warren Evermann. (1896),

Catostomus latipinnis Baird and Girard, 1854.

Flannelmouth Sucker, Flannel-Mouthed Sucker.

Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Baird, Spencer Fullerton, and Charles Girard. (1854), Baxter, George T., and James R. Simon. (1970), Brienholt, J. C., and R. A. Heckmann. (1980), Buth, Donald G., and R. W. Murphy, L. Ulmer. (1987), Carlander, Kenneth D. (1969), Carter, John G., and Vincent A. Lamarra, Ronald J. Ryel. (1986), Cross, Jeffrey N. (1985), Deacon, J. E., and P. B. Schumann, E. L. Stuenkel. (1987), Dunham, A. E., and Gerald R. Smith, J. N. Taylor. (1979), Eddy, Samuel. (1969), Fuiman, Lee A. (1983), Gilbert, Charles Henry, and N. B. Scofield. (1898), Goode, C. Brown, and Theodore Nicholas Gill. (1903), Greger, P. D., and

J. E. Deacon. (1988), Günther, Albert C. (1868), Herald, Earl S. (1967), Hubbs, Carl L., and W. I. Follett, Lillian J. Dempster. (1979), Hubbs, Carl L., and Robert Rush Miller. (1951), Hubbs, Carl L., and Robert Rush Miller. (1953), Hubbs, Carl L., and Leonard P. Schultz. (1932), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Barton Warren Evermann. (1905), Jordan, David Starr, and Charles Henry Gilbert. (1883), Karp, C. A., and H. M. Tyus. (1990), Koehn, Richard K. (1966), Koster, William J. (1957), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Malek, M., and G. McCallister. (1984), Miller, Robert Rush. (1963), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Smith, Gerald R. (1966), Snyder, Darrel E., and Robert T. Muth. (1990), Uyeno, Teruya, and Robert Rush Miller. (1963), Walden, Howard T., 2d. (1964),

Catostomus latipinnis discobulus.
Hubbs, Carl L., and Laura C. Hubbs. (1947), Simon, James R. (1946), Smith, Gerald R. (1966),

Catostomus latipinnis X Xyrauchen texanus
Buth, Donald G., and R. W. Murphy, L. Ulmer. (1987),

Catostomus leopoldi Siebert and Minckley, 1986.
Siebert, Darrell J., and W. L. Minckley. (1986),

Catostomus lesueurii Richardson, 1823.
Jordan, David Starr, and Barton Warren Evermann. (1896), Richardson, John R. (1823),

Catostomus longirostris Le Sueur, 1817.
Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883), Low, A. P. (1896), Smith, Philip W. (1979),

Catostomus longirostrum Le Sueur, 1817.
Jordan, David Starr, and Barton Warren Evermann. (1896), Le Sueur, Charles Alexandre. (1817), Obruchev, D. V. (ed.) (1967), Rafinesque, Constantine Samuel. (1820b),

Catostomus luxatus (Cope, 1879).
Lost River Sucker.
Andreasen, J. K. (1976), Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Eddy, Samuel. (1969), Ferris, Stephen D., and Gregory S. Whitt. (1978), Grinham, T., and D. K. Cone. (1990), Hubbs, Carl L., and W. I. Follett, Lillian J. Dempster. (1979), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Moyle, Peter B. (1976), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Wyatt, E. J. (1979),

Catostomus macrocheilus Girard, 1857.
Largescale sucker, Columbia River Sucker.
Arai, Hisao P., and Dwight R. Mudry. (1983), Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Bangham, Ralph V., and James R. Adams. (1954), Beverly-Burton, Mary. (1984), Black, Edgar C. (1955), Brett, J. R., and A. L. Pritchard.

(1946a), Brett, J. R., and A. L. Pritchard. (1946b), Brown, C. J. D. (1971), Carl, G. Clifford. (1936), Carl, G. Clifford, and Wilbert Amie Clemens, Casimir Charles Lindsey. (1977), Carlander, Kenneth D. (1969), Clemens, W. A. (1939), Clemens, W. A., and D. S. Rawson, J. L. McHugh. (1939), Dauble, Dennis D. (1986), Dauble, Dennis D., and R. L. Buschbom. (1981), DeKay, James Ellsworth. (1842), Dunham, A. E., and Gerald R. Smith, J. N. Taylor. (1979), Dymond, J. R. (1936), Eddy, Samuel. (1957), Eddy, Samuel. (1969), Evermann, Barton Warren. (1893a), Ferris, Stephen D., and Gregory S. Whitt. (1978), Fickeisen, D. H., and J. C. Montgomery. (1978), Fujihara, M. P. and F. P. Hungate. (1971), Fujihara, M. P. and F. P. Hungate. (1972), Gadd, Ben. (1986), Girard, C. F. (1857), Godfrey, H. (1955), Goode, C. Brown, and Theodore Nicholas Gill. (1903), Günther, Albert C. (1868), Hoffman, Glenn L. (1967), Johnson, A., and D. Norton, B. Yake. (1988), Jordan, David Starr. (1878d), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Barton Warren Evermann. (1905), Jordan, David Starr, and Charles Henry Gilbert. (1883), Krygier, B. B., and R. W. Macy. (1969), La Bolle, L. D., Jr., and H. W. Li, and B. C. Mundy. (1985), La Rivers, Ira. (1962), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Lindsey, Casimir Charles. (1956), Lindsey, Casimir Charles. (1957), Macphee, Craig. (1960), Mayr, Ernst. (1966), Mayr, Ernst. (1971), McCart, P., and N. Aspinwall. (1970), McKeown, B. A., and G. H. Geen, T. A. Watson, J. F. Powell, D. B. Parker. (1985), McPhail, J. D., and C. C. Lindsey. (1970), Miller, R. G. (1951), Miller, Robert Rush, and Ralph G. Miller. (1948), Miller, Rudolph J., and H. E. Evans. (1965), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Munro, J. A., and W. A. Clemens. (1937), Nelson, Edward M. (1948), Nelson, Edward M. (1955), Nelson, Joseph S. (1966), Nelson, Joseph S. (1968), Nelson, Joseph S. (1974), Nelson, Joseph S. (1977), Northcote, T. G., and G. F. Hartman. (1959), Nursall, J. R. (1963), Paetz, Martin J., and Joseph S. Nelson. (1970), Patten, Benjamin G. (1960), Peters, J. C. (ed.) (1964), Rehnberg, B. G., and C. B. Schreck. (1987), Reinking, L. N. (1983), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Rogers, I. H., and H. W. Mahood. (1982), Schell, S. C. (1973), Schoenthal, N. D. (1964), Schoffman, R. J. (1943), Schultz, Leonard P. (1936), Scott, W. B. (1958), Scott, W. B., and E. J. Crossman. (1969), Scott, W. B., and E. J. Crossman. (1973), Simpson, James C., and Richard L. Wallace. (1982), Smith, Gerald R. (1966), Smith, Gerald R. (1981a), Uglem, G. L. (1972), Uglem, G. L., and S. M. Beck. (1972), Walden, Howard T., 2d. (1964), Weisel, George F. (1960), Weisel, George F. (1967a), Weisel, George F. (1967b), Whitehouse, Francis C. (1946), Williams, D. D. (1978a), Wooding, Frederick H. (1959), Wydoski, Richard S., and Richard R. Whitney. (1979),

Catostomus macrolepidotus Le Sueur, 1817.

Jordan, David Starr, and Barton Warren Evermann. (1896), Le Sueur, Charles Alexandre. (1817), Rafinesque, Constantine Samuel. (1820b), Smith, Philip W. (1979),

Catostomus maculosus Le Sueur, 1817.

Günther, Albert C. (1868), Jordan, David Starr, and Barton Warren Evermann. (1896), Le Sueur, Charles Alexandre. (1817), Rafinesque, Constantine Samuel. (1820b),

Catostomus megastomus Rafinesque, 1820.

Big-mouth sucker.

Günther, Albert C. (1868), Jordan, David Starr, and Barton Warren Evermann. (1896), Rafinesque, Constantine Samuel. (1820b),

Catostomus melanops Rafinesque, 1820.

Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Jordan, David Starr. (1878b), Jordan, David Starr, and Barton Warren Evermann. (1896), Rafinesque, Constantine Samuel. (1820b), Smith, Philip W. (1979),

Catostomus melanotus.
Black-back Sucker, Black Sucker, Blue Sucker.
Rafinesque, Constantine Samuel. (1820b),

Catostomus microps Rutter, 1908.
Modoc Sucker.
Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Cooper, J. J. (1983), Eddy, Samuel. (1969), Hubbs, Carl L., and W. I. Follett, Lillian J. Dempster. (1979), Hubbs, Carl L., and Robert Rush Miller. (1951), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Martin, M. (1972), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Moyle, Peter B. (1976), Moyle, Peter B., and A. Marciochi. (1975), Nelson, Edward M. (1948), Nelson, Edward M. (1955), Ono, R. Dana, and James D. Williams, Anne Wagner. (1983), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Rutter, Cloudsley M. (1908), Schultz, Leonard P. (1936), Smith, Gerald R. (1966),

Catostomus mniotiltus Snyder.
Hubbs, Clark. (1947), Nelson, Edward M. (1948), Snyder, John Otterbein. (1913),

Catostomus nanomyzon Mather, 1886.
Jordan, David Starr, and Barton Warren Evermann. (1896), Mather, Frederic. (1886),

Catostomus nebulifer Garman, 1881.
Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883),

Catostomus nebuliferus Garman, 1881.
Garman, Samuel. (1881), Jordan, David Starr. (1923), Smith, Gerald R. (1966),

Catostomus niger Rafinesque, 1820.
Black Buffalo-fish.
Rafinesque, Constantine Samuel. (1820b),

Catostomus nigricans Le Sueur, 1817.
Hogsucker, Hog molly, Stone-Roller, Stone toter, hog molly, mullet, Stone Lugger, Hammer Head, Crawl-a-Bottom, Toter.
Breder, C. M., Jr. (1920), Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Fowler, Henry Weed. (1918), Goode, C. Brown, and Theodore Nicholas Gill. (1903), Günther, Albert C. (1868), Hubbs, Carl L. (1945), Jordan, David Starr. (1878d), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883), Larimore, R. W., and P. W. Smith. (1963), Meek, Seth Eugene. (1894), Meek, Seth Eugene, and S. F. Hildebrand. (1910), Pickens, A. L. (1928), Rafinesque, Constantine Samuel. (1820b), Shelford, Victor E. (1911a), Shelford, Victor E. (1937), Smith, Philip W. (1979),

Catostomus nigricans etowanus Jordan, 1877.
Jordan, David Starr. (1877c), Jordan, David Starr, and Barton Warren Evermann. (1896),

Catostomus oblongus Mitchill.
Rafinesque, Constantine Samuel. (1820b),

Catostomus occidentalis Ayres, 1854.

Sacramento Sucker.

Agassiz, John Louis Rodolphe. (1855), Anonymous. (1965a), Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Baltz, Donald M., and Peter B. Moyle. (1984), Baltz, D. M., and B. Vondracek, L. R. Brown, P. B. Moyle. (1987), Brittan, Martin R., and John D. Hopkirk, Jerrold D. Conners, Michael Martin. (1970), Burns, J. W. (1966), Carlander, Kenneth D. (1969), Casteel, Richard W., and Michael J. Rymer. (1981), Casteel, Richard W., and J. H. Williams, C. K. Throckmorton, et al. (1979), Cooper, J. J. (1983), Dempster, R. P., and P. Morales, F. X. Glennon. (1988), Eastman, Joseph T. (1980), Eddy, Samuel. (1957), Eddy, Samuel. (1969), Ferris, Stephen D., and Gregory S. Whitt. (1978), Goode, C. Brown, and Theodore Nicholas Gill. (1903), Günther, Albert C. (1868),.Hoffman, Glenn L. (1967), Hopkirk, J. D. (1973), Hubbs, Carl L., and W. I. Follett, Lillian J. Dempster. (1979), Hubbs, Carl L., and Robert Rush Miller. (1951), Jordan, David Starr. (1878d), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Barton Warren Evermann. (1905), Jordan, David Starr, and Charles Henry Gilbert. (1883), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Li, H. W. (1973), Miller, Rudolph J., and H. E. Evans. (1965), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Moyle, Peter B. (1976), Moyle, Peter B., and Donald M. Baltz. (1985), Moyle, Peter B., and Robert A. Daniels, Bruce Herbold, Donald M. Baltz. (1986), Moyle, Peter B., and Bruce Vondracek. (1983), Nelson, Edward M. (1948), Nelson, Edward M. (1955), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Schultz, Leonard P. (1952), Smith, Gerald R. (1966), Villa, Nick A. (1985), Walden, Howard T., 2d. (1964), Weisel, George F., and Eldon L. McLaury. (1964),

Catostomus occidentalis humboldtianum Snyder, 1908.

Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986),

Catostomus occidentalis humboldtianus Snyder, 1908.

Hubbs, Carl L., and W. I. Follett, Lillian J. Dempster. (1979), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986),

Catostomus occidentalis lacus-anserinus Fowler.

Fowler, Henry Weed. (1914a), Schultz, Leonard P. (1936),

Catostomus occidentalis lacusanserinus Fowler.

Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986),

Catostomus occidentalis mniotiltus Snyder, 1913.

Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986),

Catostomus occidentalis occidentalis Ayres, 1854.

Hubbs, Carl L., and W. I. Follett, Lillian J. Dempster. (1979), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986),

Catostomus oneida De Kay, 1842.
DeKay, James Ellsworth. (1842), Jordan, David Starr, and Barton Warren Evermann. (1896),

Catostomus oreganus Gilbert.
Hubbs, Carl L., and Robert Rush Miller. (1951),

Catostomus owyhee.
Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Smith, Gerald R. (1975),

Catostomus pallidus De Kay, 1842.
DeKay, James Ellsworth. (1842), Jordan, David Starr, and Barton Warren Evermann. (1896),

Catostomus planiceps Cuvier and Valenciennes, 1844.
Cuvier, Georges, and Achille Valenciennes. (1844), Günther, Albert C. (1868), Jordan, David Starr, and Barton Warren Evermann. (1896),

Catostomus platyrhynchus (Cope, 1874).
Mountain sucker, Northern Mountain sucker.
Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Baugh, T. (1979), Baxter, George T., and James R. Simon. (1970), Brown, C. J. D. (1971), Carl, G. Clifford, and Wilbert Amie Clemens, Casimir Charles Lindsey. (1977), Carlander, Kenneth D. (1969), Decker, L. M. (1989), Dunham, A. E., and Gerald R. Smith, J. N. Taylor. (1979), Eddy, Samuel. (1957), Eddy, Samuel. (1969), Erman, D. C. (1972), Evans, R. S., and R. A. Heckmann, J. Palmieri. (1976), Ferris, Stephen D., and Gregory S. Whitt. (1978), Gadd, Ben. (1986), Hauser, W. J. (1969), Henderson, N. E., and R. E. Peter. (1969), Heuser, W. J. (1975), Hubbs, Carl L., and W. I. Follett, Lillian J. Dempster. (1979), La Rivers, Ira. (1962), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), McClane, Albert Jules. (1974), McPhail, J. D., and C. C. Lindsey. (1970), Moyle, Peter B. (1976), Paetz, Martin J., and Joseph S. Nelson. (1970), Palmieri, J., and R. Heckmann. (1976), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Scoppettone, G. Gary, and Mark Coleman, Gary A. Wedemeyer. (1986), Scott, W. B., and E. J. Crossman. (1969), Scott, W. B., and E. J. Crossman. (1973), Simpson, James C., and Richard L. Wallace. (1982), Smith, Gerald R. (1965), Smith, Gerald R. (1966), Snyder, Darrel E. (1983), Snyder, Darrel E., and Robert T. Muth. (1990), Willock, T. A. (1969), Wydoski, Richard S., and Richard R. Whitney. (1979),

Catostomus platyrhynchus **X** *Catostomus tahoensis.*
Smith, Gerald R. (1966),

Catostomus plebeius Baird and Girard, 1855.
Rio Grande Sucker.
Crabtree, C. B., and Donald G. Buth. (1987), Günther, Albert C. (1868), Jordan, David Starr, and Barton Warren Evermann. (1896), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Rinne, J. N. (1988), Smith, Gerald R. (1965), Smith, Gerald R. (1966), Smith, Gerald R. (1981a), Villar, José Alvarez del. (1970),

Catostomus plebejus Baird and Girard, 1855.
Rio Grande Sucker.

Günther, Albert C. (1868), Jordan, David Starr, and H. E. Copeland. (1876), Smith, Gerald R. (1966), 1740,

Catostomus plebius Baird and Girard, 1855.
Rio Grande Sucker.
Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Butler, J. L. (1960), Eddy, Samuel. (1969), Ferris, Stephen D., and Donald G. Buth, Gregory S. Whitt. (1982), Ferris, Stephen D., and Gregory S. Whitt. (1978), Rinne, J. N. (1985a), Zuckerman, L. D., and E. P. Bergersen. (1986),

Catostomus pocatello Gilbert and Evermann, 1894.
Gilbert, Charles Henry, and Barton Evermann. (1894), Hubbs, Carl L., and Leonard P. Schultz. (1932), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Barton Warren Evermann. (1905),

Catostomus reddingi Cope.
Cope, Edward Drinker. (1883), Hay, Oliver Perry. (1929), Hussakof, Louis. (1908), Uyeno, Teruya, and Robert Rush Miller. (1963),

Catostomus reticulatus Richardson, 1836.
Jordan, David Starr, and Barton Warren Evermann. (1896), Richardson, John R. (1836),

Catostomus retropinnis Jordan, 1878.
Hubbs, Carl L., and Leonard P. Schultz. (1932), Jordan, David Starr. (1878d), Jordan, David Starr, and Barton Warren Evermann. (1896),

Catostomus rex Rosa Smith Eigenmann, 1891.
Eigenmann, Rosa Smith. (1891), Goode, C. Brown, and Theodore Nicholas Gill. (1903), Hubbs, Carl L., and Leonard P. Schultz. (1932), Jordan, David Starr, and Barton Warren Evermann. (1896),

Catostomus rhothœcus ThoburnIN: Jordan and Evermann, 1896. Fowler, Henry Weed. (1922), Jordan, David Starr. (1917), Jordan, David Starr, and Barton Warren Evermann. (1896),

Catostomus richardsonius Harper and Nichols, 1919.
Harper, F., and J. T. Nichols. (1919),

Catostomus rimiculus Gilbert and Snyder IN: Gilbert, 1898.
Klamath Smallscale sucker.
Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Eddy, Samuel. (1969), Gilbert, Charles Henry (1898),.Hoffman, Glenn L. (1967), Hubbs, Carl L., and W. I. Follett, Lillian J. Dempster. (1979), Hubbs, Carl L., and Robert Rush Miller. (1951), Hubbs, Carl L., and Leonard P. Schultz. (1932), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Moyle, Peter B. (1976), Nelson, Edward M. (1955), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Schultz, Leonard P. (1936), Smith, Gerald R. (1966),

Catostomus rostratus (Tilesius, 1813).
Jordan, David Starr, and Barton Warren Evermann. (1905), Schultz, Leonard P. (1947),

Catostomus santaanae (Snyder, 1908).

Santa Ana Sucker.

Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Buth, Donald G. (1983), Buth, Donald G., and C. B. Crabtree. (1982), Crabtree, C. B., and D. G. Buth. (1981), Eddy, Samuel. (1969), Greenfield, David Wayne, and Stephen T. Ross, Gary D. Deckert. (1970), Hubbs, Carl L., and W. I. Follett, Lillian J. Dempster. (1979), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Miller, Robert Rush. (1968), Moyle, Peter B. (1976), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Smith, Gerald R. (1965), Smith, Gerald R. (1966),

Catostomus setosns Le Sueur.

Rafinesque, Constantine Samuel. (1820b),

Catostomus setosus Le Sueur.

Rafinesque, Constantine Samuel. (1820b),

Catostomus shoshonensis Cope, 1883.

Cope, Edward Drinker. (1883), Hay, Oliver Perry. (1902), Hay, Oliver Perry. (1927), Hay, Oliver Perry. (1929), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Smith, Gerald R. (1975), Uyeno, Teruya, and Robert Rush Miller. (1963),

Catostomus snyderi Gilbert, 1898.

Klamath Largescale sucker.

Andreasen, J. K. (1976), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Eddy, Samuel. (1969), Evermann, Barton Warren, and Seth Eugene Meek. (1898), Hoffman, Glenn L. (1967), Hubbs, Carl L., and W. I. Follett, Lillian J. Dempster. (1979), Hubbs, Carl L., and Robert Rush Miller. (1951), Hubbs, Carl L., and Leonard P. Schultz. (1932), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Moyle, Peter B. (1976), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Schultz, Leonard P. (1936),

Catostomus sonorensis Meek, 1902.

Hubbs, Carl L., and Robert Rush Miller. (1951), Meek, Seth Eugene. (1902), Meek, Seth Eugene. (1904),

Catostomus sucetta Le Sueur.

Rafinesque, Constantine Samuel. (1820b),

Catostomus sucklii Girard, 1857.

Girard, C. F. (1857), Jordan, David Starr, and Barton Warren Evermann. (1896),

Catostomus syncheilus Hubbs and Schultz, 1932.

Hubbs, Carl L., and Robert Rush Miller. (1951), Hubbs, Carl L., and Leonard P. Schultz. (1932), Mayr, Ernst. (1966), Mayr, Ernst. (1971), Miller, Robert Rush, and Ralph G. Miller. (1948), Nelson, Edward M. (1948), Nelson, Edward M. (1955), Schultz, Leonard P. (1936), Smith, Gerald R. (1966),

Catostomus syncheilus palouseanus Schultz and Thompson, 1936.

Schultz, Leonard P., and R. J. Thompson. (1936), Smith, Gerald R. (1966),

Catostomus syncheilus syncheilus Hubbs and Schultz, 1932. Schultz, Leonard P., and R. J. Thompson. (1936), Smith, Gerald R. (1966),

Catostomus tahoensis Gill and Jordan **IN:** Jordan, 1878.
Tahoe Sucker.
Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Carlander, Kenneth D. (1969), Cope, Edward Drinker. (1883), Decker, L. M. (1989), Dunham, A. E., and Gerald R. Smith, J. N. Taylor. (1979), Eddy, Samuel. (1957), Eddy, Samuel. (1969), Erman, D. C. (1972), Estep, Marilyn L. F., and Steven Vigg. (1985), Follett, W. I. (1967), Goode, C. Brown, and Theodore Nicholas Gill. (1903),.Hoffman, Glenn L. (1967), Hubbs, Carl L., and W. I. Follett, Lillian J. Dempster. (1979), Hubbs, Carl L., and Robert Rush Miller. (1951), Hubbs, Carl L., and Leonard P. Schultz. (1932), Jordan, David Starr. (1878c), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883), Jordan, David Starr, and Henry W. Henshaw. (1878), Kennedy, J. L., and P. A. Kucera. (1978), Kucera, P. A., and J. L. Kennedy. (1977), La Rivers, Ira. (1962), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Marrin, Donn L. (1983), Marrin, Donn L., and Don C. Erman, Bruce Von Dracek. (1984),Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Moyle, Peter B. (1976), Nelson, Edward M. (1948), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Rutter, Cloudsley M. (1904), Scoppettone, G. Gary, and Mark Coleman, Gary A. Wedemeyer. (1986), Smith, Gerald R. (1966), Smith, Gerald R. (1981a), Smith, Gerald R. (1985), Snyder, D. E. (1983), Snyder, John Otterbein. (1917), Taylor, Dwight W., and Gerald R. Smith. (1981), Vigg, S. (1978), Vigg, S. (1980), Vondracek, B. C. (1982), Vondracek, B. C., and L. R. Brown, J. J. Cech, Jr. (1982), Vondracek, B. C., and J. J. Cech, Jr. (1980), Vondracek, B. C., and J. J. Cech, Jr., R. K. Buddington. (1989), Vondracek, B. C., and J. J. Cech, Jr., D. Longanecker. (1982),

Catostomus teres (Mitchill, 1815).
Common sucker, White sucker.
Clay, W. M. (1975), Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Gilbert, Charles Henry. (1885), Goode, G. Brown, and Tarleton H. Bean. (1879), Günther, Albert C. (1868),.Hoffman, Glenn L. (1967), Jordan, David Starr. (1878d), Jordan, David Starr, and Barton Warren Evermann. (1896), Meek, Seth Eugene. (1894), Mitchill, Samuel Latham. (1815), Rafinesque, Constantine Samuel. (1820b), Smith, Philip W. (1979), Storer, David Humphreys. (1867),

Catostomus texanus Abbott, 1861.
Abbott, Charles Conrad. (1861), Günther, Albert C. (1868), Jordan, David Starr, and Barton Warren Evermann. (1896), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986),

Catostomus tsiltcoosensis Evermann and Meek, 1898.
Evermann, Barton Warren, and Seth Eugene Meek. (1898), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986),

Catostomus tuberculatus Le Sueur, 1817.
Günther, Albert C. (1868), Le Sueur, Charles Alexandre. (1817), Nelson, E. W. (1878), Smith, Philip W. (1979),

Catostomus tuberculesus Le Sueur.
Rafinesque, Constantine Samuel. (1820b),

Catostomus utawana Mather, 1884.
Jordan, David Starr, and Barton Warren Evermann. (1896),

Catostomus velifer Rafinesque, 1820.
Sailing Sucker.
Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Jordan, David Starr, and Barton Warren Evermann. (1896), Rafinesque, Constantine Samuel. (1820b), Smith, Philip W. (1979),

Catostomus vittatus Le Sueur, 1817.
Günther, Albert C. (1868), Le Sueur, Charles Alexandre. (1817), Rafinesque, Constantine Samuel. (1820b),

Catostomus warnerensis Snyder, 1908.
Warner Sucker.
Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M Roedel, W. B. Scott, Loren P. Woods. (1966), Eddy, Samuel. (1969), Hubbs, Carl L., and Leonard P. Schultz. (1932), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Nelson, Edward M. (1948), Ono, R. Dana, and James D. Williams, Anne Wagner. (1983), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Schultz, Leonard P. (1936), Smith, Gerald R. (1966), Snyder, John Otterbein. (1908b), Snyder, John Otterbein. (1917),

Catostomus wigginsi Herre and Brock, 1936.
Branson, Branley A., and Clarence J. McCoy, Jr., Morgan E. Sisk. (1960), Herre, A. W. C. T. (1936), Hubbs, Carl L., and Robert Rush Miller. (1951), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Villar, José Alvarez del. (1970),

Catostomus xanthopus Rafinesque, 1820.
Mud Sucker.
Günther, Albert C. (1868), Jordan, David Starr, and Barton Warren Evermann. (1896), Rafinesque, Constantine Samuel. (1820b),

Chasmistes Jordan, 1878.
Arldt, Th. (1923), Behnke, Robert J. (1981), Cavender, Ted M. (1986), Cope, Edward Drinker. (1883), Eschmeyer, William N. (1990), Hay, Oliver Perry. (1927), Hay, Oliver Perry. (1929), Jordan, David Starr. (1878c), Jordan, David Starr. (1878d), Jordan, David Starr. (1907b), Jordan, David Starr. (1919), Jordan, David Starr. (1923), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883), Koehn, Richard K. (1969), Madsen, James H., Jr., and W. E. Miller. (1979), McClellan, P. H. (1977), Miller, Robert Rush. (1958), Miller, Robert Rush. (1965), Miller, Robert Rush, and Gerald R. Smith. (1981), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Moyle, Peter B., and Joseph J. Cech, Jr. (1982), Nelson, Edward M. (1949), Nelson, Joseph S. (1976), Nelson, Joseph S. (1984), Obruchev, D. V. (ed.) (1967), Orr, William N., and Elizabeth L. Orr. (1981), Romer, Alfred Sherwood. (1966), Smith, Gerald R. (1966), Smith, Gerald R. (1981a), Uyeno, Teruya, and Robert Rush Miller. (1962),

Chasmistes batrachops (Cope).

Hay, Oliver Perry. (1902), Hay, Oliver Perry. (1927), Hay, Oliver Perry. (1929), Hussakof, Louis. (1908), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Starks, Edwin C. (1907), Uyeno, Teruya, and Robert Rush Miller. (1963),

Chasmistes brevirostris Cope, 1879.

Shortnose Sucker.

Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Coots, M. (1965), Cope, Edward Drinker. (1879), Cope, Edward Drinker. (1883), Eastman, Joseph T. (1977), Eastman, Joseph T. (1980), Eddy, Samuel. (1969), Ferris, Stephen D., and Gregory S. Whitt. (1978), Gilbert, Charles Henry (1898), Goode, C. Brown, and Theodore Nicholas Gill. (1903), Hubbs, Carl L., and W. I. Follett, Lillian J. Dempster. (1979), Hubbs, Carl L., and Leonard P. Schultz. (1932), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Barton Warren Evermann. (1905), Jordan, David Starr, and Charles Henry Gilbert. (1883), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Moyle, Peter B. (1976), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Schultz, Leonard P. (1936),

Chasmistes chamberlaini Rutter, 1904.

Hubbs, Carl L., and Leonard P. Schultz. (1932), Rutter, Cloudsley M. (1904), Snyder, John Otterbein. (1917),

Chasmistes copei Evermann and Meek, 1898.

Evermann, Barton Warren, and Seth Eugene Meek. (1898), Goode, C. Brown, and Theodore Nicholas Gill. (1903), Hubbs, Carl L., and Leonard P. Schultz. (1932), Jordan, David Starr, and Barton Warren Evermann. (1905), Schultz, Leonard P. (1936),

Chasmistes cujus Cope, 1883.

Cui-ui, Couia.

Bachanan, C. C., and M. W. Coleman. (1987), Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Carlander, Kenneth D. (1969), Chatto, D. A. (1979), Cope, Edward Drinker. (1883), Eddy, Samuel. (1957), Eddy, Samuel. (1969), Engel, J. M. (1978), Finnley, D. [Editor]. (1978a), Follett, W. I. (1967), Fowler, Henry Weed. (1914a), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883), Koch, D. L. (1973a), Koch, D. L. (1973b), Koch, D. L. (1976), Koch, D. L., and G. P. Contreras. (1972), Koch, D. L., and G. P. Contreras. (1973), La Rivers, Ira. (1962), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Miller, Rudolph J., and H. E. Evans. (1965), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Nelson, Edward M. (1948), Ono, R. Dana, and James D. Williams, Anne Wagner. (1983), Pister, Edwin P. (1981), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Scoppettone, G. G. (1988), Scoppettone, G. Gary, and Mark Coleman, Gary A. Wedemeyer. (1986), Scoppettone, G. Gary, and Gary A. Wedemeyer, Mark Coleman, Howard Burge. (1983), Sigler, W. F., and S. Vigg, M. Bres. (1985), Smith, Gerald R. (1985), Snyder, D. E. (1983), Sonnevil, G. M. (1978), Vigg, S. (1978), Vigg, S. (1980),

Chasmistes liorus Jordan, 1878.

June Sucker, June Sucker of Utah Lake.

Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Baxter, George T., and James R. Simon. (1970), Eddy, Samuel. (1969), Goode, C. Brown, and Theodore Nicholas Gill. (1903), Jordan, David Starr. (1878c), Jordan, David Starr. (1878d), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Barton Warren Evermann. (1905), Jordan, David Starr, and Charles Henry Gilbert. (1880), Jordan, David Starr, and Charles Henry Gilbert. (1883), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Scoppettone, G. Gary, and Mark Coleman, Gary A. Wedemeyer. (1986),

Chasmistes liorus mictus Miller and Smith, 1981.

June Sucker.

Miller, Robert Rush, and Gerald R. Smith. (1981),

Chasmistes luxatus Cope, 1879.

Cope, Edward Drinker. (1879), Cope, Edward Drinker. (1883), Goode, C. Brown, and Theodore Nicholas Gill. (1903), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883),

Chasmistes muriei Miller and Smith, 1981.

Snake River Sucker.

Miller, Robert Rush, and Gerald R. Smith. (1981), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986),

Chasmistes oregonus Starks, 1907.

Arldt, Th. (1907), Cope, Edward Drinker. (1883), Hay, Oliver Perry. (1902), Hay, Oliver Perry. (1927), Hay, Oliver Perry. (1929), Jordan, David Starr. (1907b), Starks, Edwin C. (1907),

Chasmistes spatulifer Miller and Smith, 1967.

Kimmel, Peter G. (1975), Linder, Allan D., and Dale G. Kosluchar. (1976), Miller, Robert Rush, and Gerald R. Smith. (1967), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Smith, Gerald R. (1975),

Chasmistes stomias Evermann and Meek, 1898.

Evermann, Barton Warren, and Seth Eugene Meek. (1898), Gilbert, Charles Henry (1898), Goode, C. Brown, and Theodore Nicholas Gill. (1903), Hubbs, Carl L., and Leonard P. Schultz. (1932), Jordan, David Starr, and Barton Warren Evermann. (1905), Schultz, Leonard P. (1936),

Chasmites.

Orr, William N., and Elizabeth L. Orr. (1981),

Chasmites cujus.

Estep, Marilyn L. F., and Steven Vigg. (1985),

Cotostomus anisopterus.

Buffalo Carp Sucker, Buffalo Carp, Buffalo perch, Buffalo Sucker, White Buffalo-Fish.

Rafinesque, Constantine Samuel. (1820b),

Cotostomus melanops.
Black-face Sucker.
Rafinesque, Constantine Samuel. (1820b),

Cotostomus rhothæcus Thoburn **IN:** Jordan and Evermann, 1896. Jordan, David Starr, and Barton Warren Evermann. (1896),

Cycelptus.
Miller, Robert Rush. (1958),

Cycleptus Rafinesque, 1819.
Black Horse.
Eschmeyer, William N. (1990), Jordan, David Starr. (1923), Jordan, David Starr, and Barton Warren Evermann. (1896), Meek, Seth Eugene. (1894), Miller, Robert Rush. (1958), Miller, Rudolph J., and H. E. Evans. (1965), Nelson, Edward M. (1948), Nelson, Edward M. (1949), Rafinesque, Constantine Samuel. (1820b),

Cycleptus elongatus (Le Sueur, 1817).
Blue sucker, Gourd-Seed Sucker, Suckerel, Missouri Sucker, Black-Horse.
Bailey, Reeve M., and Marvin O. Allum. (1962), Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Barnickol, P. G., and W. C. Starrett. (1951), Becker, George C. (1983), Blatchley, W. S. (1938), Boschung, Herbert T., Jr., and James D. Williams, Daniel W. Gotshall, David K. Caldwell, Melba C. Caldwell, Carol Nehring, Jordan Verner. (1983), Branson, Branley A. (1962), Breder, C. M., Jr., and D. E. Rosen. (1966), Brown, C. J. D. (1971), Buth, Donald G. (1983), Carlander, Kenneth D. (1969), Christenson, L. M. (1974), Cincotta, Dan A., and Robert L. Miles, Michael E. Hoeft, Gerald E. Lewis. (1986), Clay, W. M. (1975), Clemens, Howard P., and W. Waynon Johnson. (1964), Coker, R. E. (1930), Contreras-Balderas, S., and R. Rivera-T. (1972), Cooper, Edwin Lavern. (1983), Cowley, D. E., and J. E. Sublette. (1989), Cross, Frank B. (1967), Cross, Frank B., and Joseph T. Collins. (1975), Curry, Kevin D., and Anne Spacie. (1979), Deacon, James Everett. (1960), Douglas, Neil H. (1974), Eastman, Joseph T. (1977), Eddy, Samuel. (1957), Eddy, Samuel. (1969), Eddy, Samuel, and James C. Underhill. (1974), Elrod, J. H., and T. J. Hassler. (1971), Fago, Don. (1984a), Ferris, Stephen D., and Gregory S. Whitt. (1978), Fisher, H. J. (1962), Fogle, N. E. (1961a), Fogle, N. E. (1961b), Fogle, N. E. (1963a), Fogle, N. E. (1963b), Forbes, Stephen Alfred. (1884), Forbes, Stephen Alfred., and Robert Earl Richardson. (1908), Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Fowler, Henry Weed. (1945), Fowler, Henry Weed. (1948b), Gehlbach, F. R., and R. R. Miller. (1961), Goode, C. Brown, and Theodore Nicholas Gill. (1903), Hogue, J. J., Jr., and J. V. Conner, V. R. Kranz. (1981), Hubbs, Carl L., and Clark Hubbs. (1958), Jenkins, Robert M. (1953a), Jordan, David Starr. (1878a), Jordan, David Starr. (1929), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Barton Warren Evermann. (1905), Jordan, David Starr, and Charles Henry Gilbert. (1883), Koster, William J. (1957), Kuehn, J. H., and W. Niemuth, A. R. Peterson. (1961), Large, T. (1903), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Leiby, P. D., and D. C. Kritsky, D. D. Bauman. (1973), Les, B. L. (1979), Le Sueur, Charles Alexandre. (1817), Lindsey, Hague L., and James C. Randolph, John Carroll. (1983), Mcinerny, M. C. and J. Witteld. (1988), Meek, Seth Eugene. (1894), Miller, Rudolph J., and Henry W. Robinson. (1973), Moore, G. A., and Frank B. Cross. (1950), Moss, R. E., and J. W. Scanlan, C. S. Anderson. (1983), Moyle, J. B. (1975), Nelson, Edward M. (1948), Nelson, E. W. (1876), Nelson, Joseph S. (1976), Nelson, Joseph S. (1984), Nelson, W. R. (1962), O'Donnell, D. J. (1935), Pearson, William D., and Louis A. Krumholz (1984), Pflieger, William L. (1971), Pflieger, William L. (1975), Phillips, Gary L., and William D. Schmid,

James C. Underhill. (1982), Phillips, Gary L., and James C. Underhill. (1971), Pigg, J. (1982), Platt, D. R., and Frank B. Cross, D. Distler, O. S. Fent, E. R. Hall, M. Terman, J. Zimmerman, J. Walstrom. (1973), Rasmussen, J. L., editor. (1979), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Rupprecht, R. J., and L. A. Jahn. (1980), Scott, Donald C. (1951), Semmens,.K. J. (1985), Shields, J. T. (1955b), Shields, J. T. (1956), Shields, J. T. (1957b), Shields, J. T. (1958a), Smith, Gerald R. (1966), Smith, Gerald R. (1981b), Smith, Philip W. (1965), Smith, Philip W. (1973), Smith, Philip W. (1979), Smith, Philip W., and A. C. Lopinot, W. L. Pflieger. (1971), Sprague, J. W. (1959a), Swingle, W. E. (1965), Trautman, Milton B. (1957), Trautman, Milton B. (1981), Villar, José Alvarez del. (1970), Walden, Howard T., 2d. (1964), Yeager, Bruce L., and Kenneth J. Semmens. (1987),

Cycleptus nigrescens Rafinesque, 1819.
Black Suckerel.
Jordan, David Starr, and Barton Warren Evermann. (1896), Rafinesque, Constantine Samuel. (1819), Rafinesque, Constantine Samuel. (1820b),

Cycleptus robustus Sytchevskaya, 1986.
Sytchevskaya, E. K. (1986),

Cyprinus catostomus Forster, 1773.
Forster, J. R. (1773), Jordan, David Starr, and Barton Warren Evermann. (1896), Smith, Philip W. (1979),

Cyprinus commersonii La Cepède, 1803.
Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Jordan, David Starr, and Barton Warren Evermann. (1896), La Cepède, Bernard Germain Étienne. (1803), Smith, Philip W. (1979),

Cyprinus oblongus Mitchill, 1815.
Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Mitchill, Samuel Latham. (1815), Smith, Philip W. (1979),

Cyprinus rostratus Tilesius, 1813.
Günther, Albert C. (1868), Tilesius von Tilenau, Wilhelm Gottlieb. (1813),

Cyprinus sucetta La Cepède, 1803.
Smith, Philip W. (1979),

Cyprinus suerii Richardson, 1836.
Günther, Albert C. (1868), Richardson, John R. (1836),

Cyprinus teres Mitchill, 1815.
Jordan, David Starr, and Barton Warren Evermann. (1896), Mitchill, Samuel Latham. (1815),

Decactylus Rafinesque, 1820.
Eschmeyer, William N. (1990), Jordan, David Starr. (1923), Rafinesque, Constantine Samuel. (1820b),

Decactylus bostoniensis (Le Sueur, 1817).
Jordan, David Starr, and Barton Warren Evermann. (1896),

Deltistes Seale, 1896.
Eschmeyer, William N. (1990), Jordan, David Starr. (1923), Nelson, Joseph S. (1984), Romer, Alfred Sherwood. (1966), Smith, Gerald R. (1966),

Deltistes ellipticus Miller and Smith, 1967.
Miller, Robert Rush, and Gerald R. Smith. (1967), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986),

Deltistes luxatus
Coots, M. (1965), Gilbert, Charles Henry (1898), Goode, C. Brown, and Theodore Nicholas Gill. (1903), Hubbs, Carl L., and Leonard P. Schultz. (1932), Jordan, David Starr, and Barton Warren Evermann. (1905), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Schultz, Leonard P. (1936),

Deltistes owyhee Miller and Smith, 1967.
Miller, Robert Rush, and Gerald R. Smith. (1967),

Erimyzon Jordan, 1876.
Chub Suckers.
Eschmeyer, William N. (1990), Fuiman, Lee A. (1985), Jordan, David Starr. (1923), Jordan, David Starr, and Barton Warren Evermann. (1896), Meek, Seth Eugene. (1894), Miller, Robert Rush. (1958), Nelson, Edward M. (1948), Nelson, Edward M. (1949), Nelson, Joseph S. (1976), Nelson, Joseph S. (1984), Ribble, D. O., and M. H. Smith. (1983), Yeager, Bruce L., and Kenneth J. Semmens. (1987),

Erimyzon goodei Jordan, 1878.
Goode, C. Brown, and Theodore Nicholas Gill. (1903), Jordan, David Starr. (1878d), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883),

Erimyzon luxus Sytchevskaya, 1986.
Sytchevskaya, E. K. (1986),

Erimyzon melanops
Smith, Philip W. (1979),

Erimyzon oblongus (Mitchill, 1815).
Creek chubsucker.
Anderson, W. D. (1964), Bagenal, T. B. (1978), Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Becker, George C. (1983), Behnke, Robert J., and Ralph M. Wetzel. (1960), Blatchley, W. S. (1938), Boschung, Herbert T., Jr., and James D. Williams, Daniel W. Gotshall, David K. Caldwell, Melba C. Caldwell, Carol Nehring, Jordan Verner. (1983), Breder, C. M., Jr., and D. E. Rosen. (1966), Carlander, Kenneth D. (1969), Carnes, W. C., Jr. (1958), Chaicharn, A., and W. L. Bullock. (1967), Clay, W. M. (1975), Cook, F. A. (1959), Cooper, Edwin Lavern. (1983), Curry, Kevin D., and Anne Spacie. (1984), Dorkin, John L., Jr. (1980), Douglas, Neil H. (1974), Eastman, Joseph T. (1977), Eddy, Samuel. (1969), Elser, H. J. (1961), Evans, James W., and Richard L. Noble. (1979), Everhart, W. H. (1958), Fago, Don. (1984b), Ferris, Stephen D., and Gregory S. Whitt. (1978), Flemer, D. A., and W. S. Woolcott. (1966), Forbes, Stephen Alfred. (1884), Forbes, Stephen Alfred., and Robert Earl Richardson. (1908), Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Forney, J. L. (1957a), Fuiman, Lee A. (1979), Funk, J. L., and R. S. Campbell. (1953), Gilbert, Carter R., and Benjamin R. Wall, Jr. (1985), Gilbert, Charles Henry. (1891), Greeley, J. R. (1936), Greene, C. W. (1935),

Grimes, L. R., and G. C. Miller. (1975), Grimes, L. R., and G. C. Miller. (1976), Hankinson, T. L. (1920),.Hoffman, Glenn L. (1967), Hubbs, Carl L., and Karl F. Lagler. (1974), Jordan, David Starr. (1876), Jordan, David Starr. (1878a), Jordan, David Starr, and Barton Warren Evermann. (1896), Kendall, William Converse. (1914), Kennicott, Robert. (1855), Large, T. (1903), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Lewis, W. M., and D. Elder. (1953), Lippson, Alice J., and R. L. Moran. (1974), Luce, W. (1933), Mackiewicz, J. S. (1974), Mansueti, A. J., and J. D. Hardy. (1967), Martin, R. G., and R. S. Campbell. (1953), McCollum, J. L., and C. J. Quertermus. (1980), Meek, Seth Eugene. (1891), Miller, Rudolph J., and Henry W. Robinson. (1973), Mitchill, Samuel Latham. (1815), Nelson, E. W. (1876), O'Donnell, D. J. (1935), Page, Lawrence M. (1982), Page, L. M., and C. E. Johnston. (1990), Pearson, William D., and Louis A. Krumholz (1984), Pflieger, William L. (1971), Pflieger, William L. (1975), Ritson, Philip C., and Janet L. Polk, Robert W. Malick, Jr. (1977), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Scarola, J. F. (1973), Scott, W. B. (1954), Scott, W. B. (1967), Skea, J. C., and H. A. Simonin, H. J. Dean, J. R. Colquhoun, J. J. Spagnoli, G. D. Veith. (1979), Smith, C. Lavett. (1986), Smith, Philip W. (1963), Smith, Philip W. (1965), Smith, Philip W. (1968), Smith, Philip W. (1971), Smith, Philip W. (1973), Smith, Philip W. (1979), Trautman, Milton B. (1957), Underhill, A. H. (1941), Wagner, Charles C., and Edwin L. Cooper. (1963), Walden, Howard T., 2d. (1964), Wang, Johnson C. S., and Ronnie J. Kernehan. (1979), Werner, Robert G. (1976a), Werner, Robert G. (1976b), Werner, Robert G. (1980), Whitworth, W. R., and P. L. Berrien, W. T. Keller. (1968),

Erimyzon oblongus claviformis (Girard).

Western Creek Chubsucker.

Bailey, Reeve M., and Gerald R. Smith. (1981), (1954), Clay, W. M. (1975), Hubbs, Carl L., and Karl F. Lagler. (1941), Hubbs, Carl L., and Karl F. Lagler. (1947), Hubbs, Carl L., and Karl F. Lagler. (1974), Larimore, R. W., and P. W. Smith. (1963), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Miller, Rudolph J., and H. E. Evans. (1965), Nelson, Edward M. (1948), Smith, Philip W. (1979), Trautman, Milton B. (1957), Trautman, Milton B. (1981), Welter, Wilfred A. (1938),

Erimyzon oblongus connectens Hubbs, 1930.

Hubbs, Carl L. (1930), Hubbs, Carl L., and Karl F. Lagler. (1974), Lee, David S., and Carter R. Gilbert. Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980),

Erimyzon oblongus oblongus (Mitchill, 1815).

Bailey, Reeve M., and Gerald R. Smith. (1981), (1954), Eastman, Joseph T. (1980), Harrington, Robert W., Jr. (1947), Hubbs, Carl L., and Karl F. Lagler. (1941), Hubbs, Carl L., and Karl F. Lagler. (1947), Hubbs, Carl L., and Karl F. Lagler. (1974), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Mansueti, Romeo. (1951), Mansueti, Romeo, and Harold J. Elser. (1953), McCabe, Britton C. (1943), Smith, Philip W. (1979),

Erimyzon sucetta (La Cepède, 1803).

Lake Chubsucker, Sweet sucker, Creek Fish, Chub Sucker.

Allen, E. R. (1946), Amin, Omar A. (1985), Amin, Omar M. (1982), Amin, O. M. (1985), Amin, Omar M. (1986a), Amin, Omar M. (1986b), Amin, O. M., and J. C. Vignieri. (1986), Anderson, W. D. (1964), Anonymous. (1965a), Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Bailey, Reeve M., and Gerald R. Smith.

(1981), (1954), Bajkov, A. (1928), Baker, M. R. (1986), Becker, George C. (1964b), Becker, George C. (1983), Bennett, G. W., and W. F. Childers. (1957), Bennett, G. W., and W. F. Childers. (1966), Bissett, E. D. R. (1927), Boschung, Herbert T., Jr., and James D. Williams, Daniel W. Gotshall, David K. Caldwell, Melba C. Caldwell, Carol Nehring, Jordan Verner. (1983), Brown, C. J. D., and R. C. Ball. (1943), Buth, Donald G. (1983), Cahn, A. R. (1927), Carlander, Kenneth D. (1955), Carlander, Kenneth D. (1969), Christensen, B. M., and R. L. Calentine. (1983), Clay, W. M. (1975), Cooper, Edwin Lavern. (1983), Cooper, Edwin Lavern, and C. C. Wagner, G. E. Krantz. (1971), Cooper, G. P. (1936a), Cooper, G. P. (1936b), Cooper, G. P., and R. N. Schafer. (1954), Cooper, G. P., and G. N. Washburn. (1949), Crossman, E. J. (1962), Crossman, E. J., and R. G. Ferguson. (1963), Dorkin, John L., Jr. (1980), Douglas, Neil H. (1974), Eddy, Samuel. (1957), Eddy, Samuel. (1969), Emery, Lee. (1976), Ewers, L. A., and M. W. Boesel. (1935), Fago, Don. (1984b), Ferris, Stephen D., and Gregory S. Whitt. (1978), Forbes, Stephen Alfred. (1884), Forbes, Stephen Alfred. (1890), Forbes, Stephen Alfred., and Robert Earl Richardson. (1908), Fowler, Henry Weed. (1919), Gerking, Shelby D. (1945), Goode, C. Brown, and Theodore Nicholas Gill. (1903), Goode, G. Brown, and Tarleton H. Bean. (1879), Greene, C. W. (1935), Grinham, T., and D. K. Cone. (1990), Hankinson, T. L. (1920), Harlan, J. R., and E. B. Speaker. (1956), Hildebrand, Samuel F., and William C. Schroeder. (1923), Hinks, David. (1943),.Hoffman, Glenn L. (1967), Hubbs, Carl L. (1921), Jordan, David Starr. (1878a), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Barton Warren Evermann. (1905), Jordan, David Starr, and Charles Henry Gilbert. (1883), Keleher, J. J., and B. Kooyman. (1957), Lambou, V. W. (1961), Large, T. (1903), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Leed, J. A., and T. V. Belanger. (1981), Louder, D. E. (1961), Louder, D. E. (1962), Martin, R. G., and R. S. Campbell. (1953), McClane, Albert Jules. (1974), Meek, Seth Eugene. (1894), Meek, Seth Eugene, and S. F. Hildebrand. (1910), Miller, Rudolph J., and H. E. Evans. (1965), Moody, H. L. (1957), Negus, M. T., and J. M. Aho, C. S. Anderson. (1987), Nelson, E. W. (1876), O'Donnell, D. J. (1935), Odum, Howard T., and David K. Caldwell. (1955), Pearson, William D., and Louis A. Krumholz (1984), Pflieger, William L. (1971), Pflieger, William L. (1975), Priegel, G. R. (1967), Richardson, R. E. (1913), Ricker, W. E. (1945), Riley, D. M. (1978), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Roosa, D. M. (1977), Rutherford, D. A., and A. A. Echelle, O. E. Maughan. (1985), Scott, W. B. (1954), Scott, W. B. (1967), Scott, W. B., and E. J. Crossman. (1969), Scott, W. B., and E. J. Crossman. (1973), Shaklee, J. B., and M. J. Champion, Gregory S. Whitt. (1974), Shelford, Victor E. (1911a), Shelford, Victor E. (1911b), Shelford, Victor E. (1937), Shireman, J. V., and R. L. Stetler, D. E. Colle. (1978), Smith, C. Lavett. (1986), Smith, Hugh M. (1893), Smith, Philip W. (1965), Smith, Philip W. (1973), Smith, Philip W. (1979), Storer, David Humphreys. (1867), Swift, Camm, and Ralph W. Yerger, Patrick R. Parrish. (1977), Trautman, Milton B. (1957), Underhill, A. H. (1941), Walden, Howard T., 2d. (1964), Webster, Dwight A. (1942), Werner, Robert G. (1976a), Werner, Robert G. (1976b), Werner, Robert G. (1980), Wiener, J. G., and J. P. Giesy, Jr. (1979), Williams, E. H., Jr. (1979), Williams, E. H., Jr., and W. A. Rogers. (1972), Williams, E. H., Jr., and W. A. Rogers. (1984),

Erimyzon sucetta kennerleyi.
Scott, W. B. (1952), Trautman, Milton B. (1957),

Erimyzon sucetta kennerlii (Girard).
Gerking, Shelby D. (1947), Hubbs, Carl L., and Karl F. Lagler. (1941), Hubbs, Carl L., and Karl F. Lagler. (1947), Hubbs, Carl L., and Karl F. Lagler. (1974), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Nelson, Edward M. (1948),

Erimyzon sucetta kennerlyi (Girard).

Western Lake Chubsucker.

Clay, W. M. (1975), Eastman, Joseph T. (1980), Scott, D. M. (1955), Trautman, Milton B. (1981),

Erimyzon sucetta oblongus (Mitchill, 1815).

Chub-sucker, Sweet Sucker, Creek-Fish.

Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Fowler, Henry Weed. (1914c), Fowler, Henry Weed. (1916a), Fowler, Henry Weed. (1916b), Fowler, Henry Weed. (1918), Fowler, Henry Weed. (1921), Jordan, David Starr. (1929), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Barton Warren Evermann. (1905), Jordan, David Starr, and Charles Henry Gilbert. (1883), Keim, Thomas D. (1915), Larimore, R. W., and P. W. Smith. (1963), Nichols, John Treadwell, and William K. Gregory. (1918), Smith, Philip W. (1979),

Erimyzon sucetta sucetta (La Cepède).

Breder, C. M., Jr. (1920), Brimley, C. S., and W. B. Mabee. (1925), Eastman, Joseph T. (1980), Fowler, Henry Weed. (1945), Jordan, David Starr. (1929), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Nelson, Edward M. (1948), Pickens, A. L. (1928), Reid, George K., Jr. (1950), Weed, Alfred Cleveland. (1921), Welsh, W. W. (1916),

Erimyzon tenuis (Agassiz, 1855).

Sharpfin chubsucker.

Agassiz, John Louis Rodolphe. (1855), Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Douglas, Neil H. (1974), Eddy, Samuel. (1969), Ferris, Stephen D., and Gregory S. Whitt. (1978), Gilbert, Carter R., and Benjamin R. Wall, Jr. (1985), Gunning, G. E., and T. M. Berra. (1969), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Miller, Rudolph J., and H. E. Evans. (1965), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980),

Eurystomus Rafinesque, 1820.

Eschmeyer, William N. (1990), Jordan, David Starr. (1923), Jordan, David Starr, and Barton Warren Evermann. (1896), Rafinesque, Constantine Samuel. (1820b),

Eurystomus megastomus Rafinesque, 1820.

Jordan, David Starr, and Barton Warren Evermann. (1896),

Exoglossum macropterum Rafinesque, 1820.

Günther, Albert C. (1868), Rafinesque, Constantine Samuel. (1820b),

Hylomyzon Agassiz, 1855.

Agassiz, John Louis Rodolphe. (1855), Eschmeyer, William N. (1990), Jordan, David Starr. (1923), Jordan, David Starr, and Barton Warren Evermann. (1896),

Hylomyzon nigricans (Le Sueur, 1817).

Agassiz, John Louis Rodolphe. (1855), Günther, Albert C. (1868), Jordan, David Starr, and Barton Warren Evermann. (1896),

Hypentelium Rafinesque, 1818.

Eschmeyer, William N. (1990), Jaffe, R., and E. A. Stemmler, B. D. Eitzer, R. A. Hites. (1985), Jordan, David Starr. (1923), Jordan, David Starr, and Barton Warren Evermann.

(1896), Nelson, Edward M. (1948), Nelson, Edward M. (1949), Nelson, Joseph S. (1976), Raney, Edward C., and Ernest A. Lachner. (1947), Smith, Gerald R. (1966), Swofford, D. L., and S. H. Berlocher. (1987), Trautman, Milton B. (1957), Woods, A. E., and R. F. Carlton, M. E. Casto, G. I. Gleason. (1979), Yeager, Bruce L., and Kenneth J. Semmens. (1987),

Hypentelium etowanum (Jordan, 1877).

Alabama hog sucker.

Amin, Omar M., and Ernest H. Williams, Jr. (1983), Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Boschung, Herbert T., Jr., and James D. Williams, Daniel W. Gotshall, David K. Caldwell, Melba C. Caldwell, Carol Nehring, Jordan Verner. (1983), Buth, Donald G. (1978), Buth, Donald G. (1980), Buth, Donald G. (1983), Carlander, Kenneth D. (1969), Chien, Shin Ming, and Wilmer A. Rogers. (1970), Cone, D. K., and A. O. Dechtiar. (1984), Eddy, Samuel. (1957), Eddy, Samuel. (1969), Ferris, Stephen D., and Gregory S. Whitt. (1978), Fuiman, Lee A. (1984), Gilbert, Charles Henry. (1891), Hubbs, Carl L., and Karl F. Lagler. (1974), Jenkins, Robert E. (1970), Johnson, Sterling K. (1971), Jordan, David Starr. (1877c), Mackiewicz, J. S. (1972), Miller, Rudolph J., and H. E. Evans. (1965), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Rogers, Wilmer A. (1967), Rogers, Wilmer A. (1968), Rogers, Wilmer A., and J. D. Mizelle. (1966), Shih, M. C., and W. A. Rogers. (1970), Stiles, R. A., and D. A. Etnier. (1971), Swingle, W. E. (1965), Walden, Howard T., 2d. (1964), Williams, E. H., Jr. (1974), Wiltz, J. W. (1986),

Hypentelium macropterum Rafinesque, 1818.

Jordan, David Starr, and Barton Warren Evermann. (1896), Rafinesque, Constantine Samuel. (1818a),

Hypentelium nigricans (Le Sueur, 1817).

Northern hog sucker, Hog Sucker, Stone Lugger, Stone Toter, Hammerhead, Crawl-a-bottom, Hog Mullet.

Anonymous. (1965a), Anonymous. (1978), Anonymous. (1981), Bailey, Reeve M., and Marvin O. Allum. (1962), Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Bailey, Reeve M., and Gerald R. Smith. (1981), (1954), Bauer, Bruce H., and Branley A. Branson, Strant T. Colwell. (1978), Becker, George C. (1966), Becker, George C. (1983), Bennett, D. H., and O. E. Maughan, D. B. Jester, Jr. (1985), Beverly-Burton, Mary. (1984), Blatchley, W. S. (1938), Boschung, Herbert T., Jr., and James D. Williams, Daniel W. Gotshall, David K. Caldwell, Melba C. Caldwell, Carol Nehring, Jordan Verner. (1983), Bouck, G. R., and R. C. Ball. (1967), Branson, Branley A., and Donald L. Batch. (1974), Breder, C. M., Jr., and D. E. Rosen. (1966), Brown, E. H., Jr. (1960), Buth, Donald G. (1977b), Buth, Donald G. (1978), Buth, Donald G. (1980), Buth, Donald G. (1983), Buynak, G. L., and H. W. Mohr, Jr. (1978b), Cahn, A. R. (1927), Call, R. E. (1887), Carlander, Kenneth D. (1948), Carlander, Kenneth D. (1969), Chapman, D. W. (1978), Cherry, D. S., and K. L. Dickson, J. Cairns, Jr., J. R. Stauffer. (1977), Chien, Shin Ming. (1969), Chung, Y.-T. (1980), Chung, Y.-T. (1981), Clay, W. M. (1975), Cochran, P. A. (1985), Cooper, Edwin Lavern. (1983), Cross, Frank B. (1967), Cross, Frank B., and Joseph T. Collins. (1975), Curry, Kevin D., and Anne Spacie. (1979), Curry, Kevin D., and Anne Spacie. (1984), Dorkin, John L., Jr. (1980), Douglas, Neil H. (1974), Eastman, Joseph T. (1977), Eastman, Joseph T. (1980), Eddy, Samuel. (1957), Eddy, Samuel. (1969), Eddy, Samuel, and T. Surber. (1947), Eddy, Samuel, and James C. Underhill. (1974), Elser, H. J. (1961), Emery, Lee. (1976), Evermann, Barton Warren, and

W. C. Kendall. (1895), Fago, Don. (1984b), Ferris, Stephen D., and Gregory S. Whitt. (1978), Fish, M. P. (1932), Forbes, Stephen Alfred. (1884), Forbes, Stephen Alfred., and Robert Earl Richardson. (1908), Freeman, H. W. (1952), Friedrich, George W. (1933), Fuiman, Lee A. (1979), Funk, J. L., and R. S. Campbell. (1953), Gale, N. L. and B. G. Wixson. (1986), Gerking, Shelby D. (1953), Gleason, Larry N. (1984), Gleason, Larry N., and B. M. Christensen, Yui Tan Chung. (1983), Greeley, J. R. (1927), Guilday, J. E., and H. W. Hamilton, E. Anderson, et al. (1978), Haas, Robert L. (1943), Hall, Gordon E., and R. M. Jenkins. (1953), Hallam, J. C. (1959), Hankinson, T. L. (1920), Hankinson, T. L. (1923), Harlan, J. R., and E. B. Speaker. (1956). Hendrix, S. S. (1973), Hendrix, S. S. (1978), Hinks, David. (1943),.Hoffman, Glenn L. (1967), Holey, M., and B. Hollender, M. Imhof, R. Jesien, R. Konopacky, M. Toneys, D. Coble. (1980), Hubbs, Carl L. (1945), Hubbs, Carl L., and Karl F. Lagler. (1941), Hubbs, Carl L., and Karl F. Lagler. (1947), Hubbs, Carl L., and Karl F. Lagler. (1974), Jackson, S. W., Jr. (1966), Jacobs, K. E., and W. D. Swink. (1983), Jenkins, Robert E. (1970), Jenkins, Robert M. (1953b), Jenkins, Robert M., and E. M. Leonard, G. E. Hall. (1952), Johnson, Sterling K. (1971), Jordan, David Starr. (1878a), Jordan, David Starr. (1929), Jordan, David Starr, and Barton Warren Evermann. (1896), Kelcher, J. J., and B. Kooyman. (1957), Kennicott, Robert. (1855), Kreuzer, R. O., and J. G. Sivak. (1984), Large, T. (1903), Larimore, R. W., and P. W. Smith. (1963), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Le Sueur, Charles Alexandre. (1817), Lopinot, Alvin C. (1966a), Lopinot, Alvin C. (ed.). (1968), Malick, Robert W., Jr., and Wayne A. Potter. (1976), Marenchin, Ginger Lee, and David M. Sever. (1981), Martin, R. G., and R. S. Campbell. (1953), Maurakis, Eugene G., and William S. Woolcott. (1984), McClane, Albert Jules. (1974), McCleave, James David. (1964), Meek, Seth Eugene. (1891), Mergo, John C., Jr., and Andrew M. White. (1984), Metcalf, A. L. (1966), Miller, Rudolph J., and H. E. Evans. (1965), Miller, Rudolph J., and Henry W. Robinson. (1973), Mills, Paul A., Jr., and Charles H. Hocutt, Jay R. Stauffer, Jr. (1978), Minckley, W. L. (1963), Minckley, W. L., and R. H. Goodyear, J. E. Craddock. (1964), Muzzall, P. M. (1982a), Muzzall, P. M., and F. C. Rabalais. (1975), Nash, R. D. M., and Y. Sun, C. S. Clay. (1987), Nelson, Edward M. (1948), Nelson, E. W. (1876), Ney, J. J., and J. H. van Hassel. (1983), O'Donnell, D. J. (1935), Otnes, M. A. (1973), Page, Lawrence M. (1982), Pearson, William D., and Louis A. Krumholz (1984), Pflieger, William L. (1971), Pflieger, William L. (1975), Phillips, Gary L., and William D. Schmid, James C. Underhill. (1982), Potter, Wayne A., and Robert W. Malick, Jr., Janet L. Polk. (1976), Purkett, C. A., Jr. (1958b), Raney, Edward C. (1940), Raney, Edward C. (1952), Raney, Edward C., and Ernest A. Lachner. (1939), Raney, Edward C., and Ernest A. Lachner. (1946a), Raney, Edward C., and Ernest A. Lachner. (1946b), Raney, Edward C., and Ernest A. Lachner. (1947), Raney, Edward C., and Robert M. Roecker. (1947), Rankin, Edward T. (1986), Reed, Roger J. (1957), Reed, Roger J. (1959), Reighard, Jacob E. (1920), Ribble, D. O., and M. H. Smith. (1983), Ritson, Philip C., and Janet L. Polk, Robert W. Malick, Jr. (1977), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Sather, L. M., and C. W. Threinen. (1968), Schlosser, Isaac J. (1985), Schmidt, P. J. (1950), Scott, W. B. (1954), Scott, W. B. (1958), Scott, W. B. (1967), Scott, W. B., and E. J. Crossman. (1969), Scott, W. B., and E. J. Crossman. (1973), Sheldon, Andrew L. (1968), Smith, C. Lavett. (1986), Smith, Philip W. (1963), Smith, Philip W. (1965), Smith, Philip W. (1968), Smith, Philip W. (1973), Smith, Philip W. (1979), Snyder, Richard C. (1949), Stanley, D. R. (1988), Sun, Ying, and Richard Nash, C. S. Clay. (1985), Swingle, W. E. (1965), Trautman, Milton B. (1981), Walden, Howard T., 2d. (1964), Ward, C. M. (1960), Welter, Wilfred A. (1938), Werner, Robert G. (1980), Williams, D. D. (1977b), Williams, D. D. (1979), Williams, D. D. (1980a), Williams, D. D. (1980d), Williams, D. D. (1980e), Williams, D. D., and M. J. Ulmer. (1980), Wiltz, J. W. (1986), Ying Sun, and, R. Nash, C. S. Clay. (1985),

Hypentelium nigricans etowanum.
Fowler, Henry Weed. (1945),

Hypentelium nigricans nigricans.
Fowler, Henry Weed. (1945),

Hypentelium roanokense Raney and Lachner, 1947.
Roanoke hog sucker.
Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Boschung, Herbert T., Jr., and James D. Williams, Daniel W. Gotshall, David K. Caldwell, Melba C. Caldwell, Carol Nehring, Jordan Verner. (1983), Buth, Donald G. (1978), Buth, Donald G. (1980), Buth, Donald G. (1983), Carlander, Kenneth D. (1969), Eddy, Samuel. (1957), Eddy, Samuel. (1969), Jenkins, Robert E. (1970), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Miller, Rudolph J., and H. E. Evans. (1965), Raney, Edward C., and Ernest A. Lachner. (1947), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Snyder, Richard C. (1949), Walden, Howard T., 2d. (1964),

Ichthyobus bison.
Smith, Philip W. (1979),

Ichthyobus bubalus Rafinesque.
Goode, C. Brown, and Theodore Nicholas Gill. (1903), Günther, Albert C. (1868), Jordan, David Starr. (1878b), Jordan, David Starr, and Barton Warren Evermann. (1896), Smith, Philip W. (1979),

Ichthyobus carpio.
Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Smith, Philip W. (1979),

Ichthyobus cyanellus Nelson, 1876.
Jordan, David Starr. (1878b), Jordan, David Starr, and Barton Warren Evermann. (1896), Smith, Philip W. (1979),

Ichthyobus difformis.
Smith, Philip W. (1979),

Ichthyobus ischyrus Jordan, 1877.
Jordan, David Starr. (1877b), Jordan, David Starr. (1878b),

Ichthyobus ranchii Agassiz, 1855.
Agassiz, John Louis Rodolphe. (1855), Günther, Albert C. (1868),

Ichthyobus rauchi Agassiz, 1855.
Jordan, David Starr. (1878b),

Ichthyobus stolleyi Agassiz, 1855.
Agassiz, John Louis Rodolphe. (1855), Günther, Albert C. (1868),

Ichthyobus thompsoni.
Smith, Philip W. (1979),

Ichthyobus velifer.
Smith, Philip W. (1979),

Ictiobus Rafinesque, 1820.

Buffalo Fishes.

Afanasiev, V. I. (1985), Amin, Omar M. (1969), Andryushchenko, A. I., and V. I. Glebova. (1979), Angelescu, N. (1982), Angelescu, N., and G. Cazacu, C. Cazacu. (1980), Bailey, R. M., and W. N. Eschmeyer. (1988), Berner, Lester M. (1948), Borgstrom, Georg. (1978), Carlander, Kenneth D. (1978), Dorosev, S. I., and V. K. Vinogradov. (1976), Dyakonov, Yu. N. (1980), Erokhina, L. V., and N. V. Voropaev, A. K. Bogeruk, V. F. Krivtsov. (1976), Eschmeyer, William N. (1990), Gabel, J. A. (1974),.Hoffman, Glenn L. (1967), Hoffman, Glenn L., and Fred P. Meyer. (1974), Hollander, E. E., and J. W. Avault, Jr. (1975), Holloway, H. L., Jr. (1978), Johnson, D. W., and W. L. Minckley. (1972), Jordan, David Starr. (1923), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1884), Lee, Lana, and David C. Corson, Brian D. Sykes. (1985), Lobchenko, V. V. (1981), McGeachin, R. B. (1986), Meek, Seth Eugene. (1894), Meyer, Fred P. (1967), Meyers, George Sprague. (1966), Miller, Robert Rush. (1958), Mills, Harlow B., and William C. Starrett, Frank C. Belrose. (1966), Minckley, W. L., and J. E. Johnson, J. N. Rinne, S. E. Willoughby. (1970), Moyle, Peter B., and Joseph J. Cech, Jr. (1982), Nelson, Edward M. (1948), Nelson, Edward M. (1949), Nelson, Joseph S. (1976), Nelson, Joseph S. (1984), Opinion 1582. (1990),.Perry, W. G., Jr., and J. W. Avault, Jr. (1976), Peterson, E. J., and E. W. Steucke, Jr., W. H. Lynch. (1966), Rafinesque, Constantine Samuel. (1820b), Rostlund, Erhard. (1951), Shilenko, Yu. V. and V. G. Krasnikov, N. V. Shilenko. (1986), Shumkov, M. A. (1985), Smith, Gerald R. (1963), Smith, Gerald R. (1966), Smith, Gerald R. (1981b), Starrett, William C., and William J. Harth, Philip W. Smith. (1960), Trautman, Milton B. (1957), Uyeno, Teruya, and Robert Rush Miller. (1962), Weigel, R. D., and J. A. Holman, A. A. Paloumpis. (1974), Willis, David W., and Lanny D. Jones. (1986), Wilson, R. L. (1968), Yeager, Bruce L., and Kenneth J. Semmens. (1987), Yurawecz, M. P., and J.-Y. Chen, B. J. Puma. (1986),

Ictiobus bison.

Jordan, David Starr, and Seth Eugene Meek. (1885),

Ictiobus bubalus (Rafinesque, 1818).

Smallmouth Buffalo, Small-Mouthed Buffalo, Sucker-Mouthed Buffalo, Small-Mouth Buffalo, Razor-Backed Buffalo, Quillback Buffalo.

Agassiz, John Louis Rodolphe. (1854), Angelescu, N., and G. Cazacu, C. Cazacu. (1980), Anonymous. (1961), Anonymous. (1965a), Anonymous. (1965b), Bailey, Reeve M., and Marvin O. Allum. (1962), Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Barnickol, P. G., and W. C. Starrett. (1951), Baughman, J. L. (1946), Becker, George C. (1983), Berigina, I. A. (1976), Berner, Lester M. (1948), Blatchley, W. S. (1938), Borges, M. H. (1950), Boschung, Herbert T., Jr., and James D. Williams, Daniel W. Gotshall, David K. Caldwell, Melba C. Caldwell, Carol Nehring, Jordan Verner. (1983), Branson, Branley A., and Donald L. Batch. (1974), Breder, C. M., Jr., and D. E. Rosen. (1966), Brown, C. J. D. (1971), Cahn, A. R. (1927), Caraiman, G., and Z. Pogan. (1981), Carlander, Kenneth D. (1949), Carlander, Kenneth D. (1969), Chien, Shin Ming, and Wilmer A. Rogers. (1970), Chlebeck, A., and G. L. Phillips. (1969), Christenson, L. M. (1957), Christenson, L. M., and L. L. Smith. (1965), Cicerello, Ronald R., and Robert S. Butler. (1985), Clay, W. M. (1975), Coker, R. E. (1930), Cooper, Edwin Lavern. (1983), Cross, Frank B. (1967), Cross, Frank B., and Joseph T. Collins. (1975), Curry, Kevin D., and Anne Spacie. (1979), Deacon, James Everett. (1960), Deacon, James Everett. (1961), Diercks, K. J., and T. G. Goldsberry. (1970), Dorkin, John L., Jr. (1980), Douglas, Neil H. (1974), Eastman, Joseph T. (1977), Eastman, Joseph T. (1980), Eddy, Samuel. (1957), Eddy, Samuel. (1969), Eddy, Samuel, and James C. Underhill. (1974), Elrod, J. H., and T. J. Hassler. (1971), Erokhina, L. V., and V. K. Vinogradov, V. V. Vychegzhanina. (1976),

Eschmeyer, R. W., and R. H. Stroud, A. M. Jones. (1944), Evermann, Barton Warren. (1899), Ferris, Stephen D., and Gregory S. Whitt. (1978), Finnell, Joe C. (1955), Fisher, H. J. (1962), Fogle, N. E. (1961a), Fogle, N. E. (1961b), Fogle, N. E. (1963a), Fogle, N. E. (1963b), Forbes, Stephen Alfred. (1884), Forbes, Stephen Alfred. (1890), Forbes, Stephen Alfred., and Robert Earl Richardson. (1908), Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Fowler, Henry Weed. (1945), Funk, J. L., and R. S. Campbell. (1953), Gammon, J. R. (1977), Gasaway, C. R. (1970), Georgescu, R., and P. Dascalescu, G. Caraiman. (1984), Giurca, R., and N. Angelescu. (1978), Gowanloch, J. N., and C. Gresham. (1965), Grinham, T., and D. K. Cone. (1990), Hall, Gordon E. (1951), Hall, Gordon E., and R. M. Jenkins. (1953), Hall, Gordon E., and George A. Moore. (1954), Hambrick, P. S., and R. E. Spieler. (1977), Hanson, W. D., and R. S. Campbell. (1963), Hargis, H. L. (1966), Hendricks, Lawrence J. (1956), Hinks, David. (1943), Hoese, H. Dickson, and Richard H. Moore. (1977), Houser, A. (1960), Hubbs, Carl L., and J. D. Black. (1940), Hubbs, Carl L., and Karl F. Lagler. (1941), Hubbs, Carl L., and Karl F. Lagler. (1947), Hubbs, Carl L., and Karl F. Lagler. (1974), Hubert, Wayne A., and Dennis N. Schmitt. (1985), Isom, B. G., and R. G. Hudson. (1984), Jenkins, Robert M. (1953a), Jenkins, Robert M. (1953b), Jenkins, Robert M., and J. C. Finnell. (1957), Jester, D. B. (1973), Jordan, David Starr. (1878a), Jordan, David Starr. (1929), Jordan, David Starr, and Alembert Winthrop Brayton. (1878), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Barton Warren Evermann. (1905), Jordan, David Starr, and Charles Henry Gilbert. (1884), Jordan, David Starr, and Seth Eugene Meek. (1885), Katz, M. (1954), Koster, William J. (1957), Krumholz, Louis A. (1943), Kurinnyi, S. A. (1984), Lambou, V. W. (1961), Large, T. (1903), Larimore, R. W., and P. W. Smith. (1963), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Linton, T. L. (1961), Lopinot, Alvin C. (1966a), Lopinot, Alvin C. (1967), Lopinot, Alvin C. (ed.). (1968), Martin, R. E. (1964a), Martin, R. E. (1964b), Martin, R. E., and S. I. Auerbach, D. J. Nelson. (1964), Martin, R. G., and R. S. Campbell. (1953), Matthews, W. J., and L. G. Hill, S. M. Schellhaass. (1985), Mauney, Morris, Jr. (1979), Maruney, Morris, Jr., and George L. Harp. (1979), McClane, Albert Jules. (1974), McComish, T. S. (1967), McNally, Tom. (1970), McPhail, J. D., and C. C. Lindsey. (1970), Meek, Seth Eugene. (1894), Meek, Seth Eugene, and S. F. Hildebrand. (1910), Mergo, John C., Jr., and Andrew M. White. (1984), Miller, Robert Rush. (1966), Miller, Rudolph J., and H. E. Evans. (1965), Miller, Rudolph J., and Henry W. Robinson. (1973), Mills, Paul A., Jr., and Charles H. Hocutt, Jay R. Stauffer, Jr. (1978), Minckley, W. L. (1959), Minckley, W. L. (1969), Minckley, W. L., and R. H. Goodyear, J. E. Craddock. (1964), Moen, T. E. (1960), Molya, S. P., and P. D. Arikov. (1988), Nelson, Edward M. (1948), Nelson, E. W. (1876), Nelson, W. R. (1961a), Nelson, W. R. (1962), Nelson, W. R. (1980), Niculescu-Duvaz, M., and R. Giurca, V. Popovici. (1979), Nord, R. C. (1967), O'Donnell, D. J. (1935), Patriarche, M. H. (1953), Pearson, William D., and Louis A. Krumholz (1984), Pflieger, William L. (1971), Pflieger, William L. (1975), Phillips, Gary L., and William D. Schmid, James C. Underhill. (1982), Pigg, J. (1987), Proffitt, M. A., and R. S. Benda. (1971), Purkett, C. A., Jr. (1958a), Purkett, C. A., Jr. (1958b), Pyefinch, K. A. (1964), Rafinesque, Constantine Samuel. (1818a), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Robinson, G. L., and L. A. Jahn. (1980), Savitz, J. (1987), Sandoz, O. (1960), Schoffman, R. J. (1944), Schoonover, R., and W. H. Thompson. (1954), Scott, W. B. (1958), Scott Cone, R., and K. Barbour, M. Russell, S. K. Simonet. (1986), Shields, J. T. (1955a), Shields, J. T. (1956), Shields, J. T. (1957a), Shields, J. T. (1957b), Shields, J. T. (1958a), Shields, J. T. (1958b), Shih, M. C., and W. A. Rogers. (1970), Smith, C. G., and W. M. Lewis, H. M. Kaplan. (1952), Smith, C. Lavett. (1962), Smith, Gerald R. (1981b), Smith, Philip W. (1973), Smith, Philip W. (1979), Sparks, Richard E., and William C. Starrett. (1975), Sprague, J. W. (1959a), Sprague, J. W. (1959b), Sprague, J. W. (1961), Swingle, W. E. (1965), Thompson, W. H. (1950), Trautman, Milton B. (1957), Trautman, Milton B. (1981), Uyeno, Teruya, and Robert Rush Miller. (1963), Villar, José Alvarez del. (1970), Walburg, C. H. (1964), Walburg, C. H. (1976), Walburg, C. H., and W. R. Nelson.

(1966), Walden, Howard T., 2d. (1964), Walker, M. C., and P. T. Frank. (1952), Ward, C. M. (1960), Werner, Robert G. (1976a), Werner, Robert G. (1976b), Whitaker, J. O., Jr., and R. A. Schlueter. (1975), Willis, David W. (1979), Willis, David W., and J. B. Owen. (1978), Winger, P. V., and J. K. Andreasen. (1985), Wisdom, J. L. A. (1972), Witt, Arthur, Jr. and Richard C. Marzolf. (1954), Wrenn, W. B., and B. G. Grinstead. (1968),

Ictiobus bulbalus (Rafinesque, 1818).
Amin, Omar M., and Ernest H. Williams, Jr. (1983), Anonymous. (1957), Berner, Lester M. (1951), Lowe, T. P., and T. W. May, W. G. Brumbaugh, D. A. Kane. (1985),

Ictiobus bubalus **X** *Ictiobus niger.*
Kurinnyi, S. A. (1984),

Ictiobus carpio Rafinesque.
Hubbs, Carl L., and J. D. Black. (1940), Jordan, David Starr, and Charles Henry Gilbert. (1884), Jordan, David Starr, and Seth Eugene Meek. (1885), Meek, Seth Eugene. (1894),

Ictiobus cutisanserinus.
Jordan, David Starr, and Seth Eugene Meek. (1885),

Ictiobus cyprinella (Valenciennes, 1844, IN: Cuvier and Valenciennes, 1844).
Red-Mouth Buffalo, Big-Mouth Buffalo.
Batraeva, M. N. and E. K. Saurskaya. (1982), Borgstrom, Georg. (1978), Deacon, James Everett. (1960), Emel'Yanova, N. G., and A. P. Makeeva. (1983), Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Hubbs, Carl L., and W. I. Follett, Lillian J. Dempster. (1979), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Barton Warren Evermann. (1905), Jordan, David Starr, and Charles Henry Gilbert. (1884), Meek, Seth Eugene. (1894), Miller, Rudolph J., and H. E. Evans. (1965), Smith, Philip W. (1979), Sterba, Günther. (1983),

Ictiobus cyprinellus (Valenciennes, 1844, IN: Cuvier and Valenciennes, 1844).
bigmouth buffalo, red-mouthed buffalo, red mouth buffalo fish, common buffalo fish.
Aadland, L. P., and J.J. Peterka. (1981), Andrews, L. M., and C. W. Threinen. (1968), Andryushchenko, A. I., and N. F. Grishchenko. (1985), Andryushchenko, A. I., and T. G. Litvinova, N. F. Grishchenko, E. P. Garbareva. (1986), Andryushchenko, A. I., and A. M. Tretyak. (1989), Andryushchenko, A. I., and N. V. Yurkevich. (1983), Angelescu, N., and G. Cazacu, C. Cazacu. (1980), Anonymous. (1915), Anonymous. (1921), Anonymous. (1961), Anonymous. (1965b), Averyanov, O. V., and V. N. Dubrovin, R. A. Aslanova. (1980), Badenko, L. V., and T. F. Shuvatova, V. I. Zhivonkina. (1983), Bailey, Reeve M. (1943a), Bailey, Reeve M. (1943b), Bailey, Reeve M., and Marvin O. Allum. (1962), Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Bailey, Reeve M., and Gerald R. Smith. (1981), (1954), Balan, A. I., and V. A. Prikhod'ko, I. M. Sherman, O. M. Tarasova, V. V. Isaevich, O. E. Semenyuk. (1977), Barnickol, P. G., and W. C. Starrett. (1951), Becker, George C. (1964a), Becker, George C. (1983), Beers, G. D. (1955), Berner, Lester M. (1951), Boschung, Herbert T., Jr., and James D. Williams, Daniel W. Gotshall, David K. Caldwell, Melba C. Caldwell, Carol Nehring, Jordan Verner. (1983), Brady, L., and A. Hulsey. (1959), Branson, Branley A. (1961), Branson, Branley A., and Donald L. Batch. (1974), Breder, C. M., Jr., and D. E. Rosen. (1966), Bronte. C. R., and D. W. Johnson. (1984), Brown, C. J. D. (1971), Burr, Brooks M., and R. C. Heidinger. (1983), Canfield, H. L. (1922), Caraiman, G., and Z. Pogan. (1981), Carlander, Kenneth D. (1949), Carlander, Kenneth D. (1952), Carlander, Kenneth D. (1955), Carlander, Kenneth D. (1969), Carlander, Kenneth D., and R. B. Moorman. (1949), Carlander, Kenneth D., and J. W. Parsons. (1949), Carson, R. (1943), Chlebeck, A., and G. L. Phillips. (1969),

Christenson, L. M. (1957), Clay, W. M. (1975), Cleary, R. E. (1956), Clemens, Howard P., and W. Waynon Johnson. (1954), Coble, Daniel W., and Gordon B. Farabee, Richard O. Anderson. (1985), Coker, R. E. (1930), Cooper, Edwin Lavern. (1983), Cross, Frank B. (1967), Cross, Frank B., and Joseph T. Collins. (1975), Cross, Frank B., and [illegible]tie L. Metcalf. (1963), Crossman, E. J., and R. G. Ferguson. (1963), Curry, Kevin L., and Anne Spacie. (1979), Davis, J. T. (1960), Douglas, Neil H. (1974), Eastman, Joseph T. (1977), Eastman, Joseph T. (1980), Eddy, Samuel. (1957), Eddy, Samuel. (1969), Eddy, Samuel, and Kenneth D. Carlander. (1939), Eddy, Samuel, and Kenneth D. Carlander. (1942), Eddy, Samuel, and T. Surber. (1947), Eddy, Samuel, and Roy C. Tasker, James C. Underhill. (1972), Eddy, Samuel, and James C. Underhill. (1974), Edwards, Elizabeth A. (1983), Elrod, J. H., and T. J. Hassler. (1971), Emery, Lee. (1976), Erokhina, L. V., and V. K. Vinogradov, V. V. Vychegzhanina. (1976), Fernholz, W. B., and V. E. Crawley. (1977), Ferris, Stephen D., and Gregory S. Whitt. (1978), Finke, A. H. (1967), Finnell, Joe C. (1955), Fogle, N. E. (1961a), Fogle, N. E. (1961b), Fogle, N. E. (1963a), Fogle, N. E. (1963b), Forbes, Stephen Alfred. (1884), Forbes, Stephen Alfred., and Robert Earl Richardson. (1908), Frey, D. G., and H. Pedracine. (1938), Frych, I. V., and A. M. Tretyak, V. V. Romanyuk. (1989), Funk, J. L., and R. S. Campbell. (1953), Galasun, P. T., and A. I. Andryushchenko, V. V. Grusevich. (1984), Garman, H., (1890), Georgescu, R., and P. Dascalescu, G. Caraiman. (1984), Giurca, R., and N. Angelescu. (1978), Gould, W. R. III, and W. H. Irwin. (1962), Gowanloch, J. N. (1951), Greer, J. K., and Frank B. Cross. (1956), Grinham, T., and D. K. Cone. (1990), Hall, Gordon E., and R. M. Jenkins. (1953), Hanson, W. D., and R. S. Campbell. (1963), Harlan, J. R., and E. B. Speaker. (1956), Helms, D. R. (1966), Herald, Earl S. (1967), Hoffman, Glenn L. (1967), Hubbs, Carl L., and Karl F. Lagler. (1974), Jackson, S. W., Jr. (1966), Jenkins, Robert M. (1953a), Jenkins, Robert M. (1953b), Jenkins, Robert M., and J. C. Finnell. (1957), Jenkins, Robert M., and E. M. Leonard, G. E. Hall. (1952), Johnson, D. W., and W. L. Minckley. (1969), Johnson, M. C. (1959), Johnson, R. P. (1963), Jordan, David Starr. (1878a), Jordan, David Starr, and Barton Warren Evermann. (1923), Katz, M. (1954), Kernen, L. T. (1974), Kochn, Richard K., and D. W. Johnson. (1967), Lambou, V. W. (1961), Lantz, A. W. (1948b), Large, T. (1903), Larimore, R. W., and P. W. Smith. (1963), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Leiby, P. D., and D. C. Kritsky, C. A. Peterson. (1972), Lopinot, Alvin C. (1966a), Lopinot, Alvin C. (ed.). (1968), Lynch, T. M., and P. A. Buscemi, D. G. Lemons. (1953), Makeeva, A. P. (1980), Margaritov, N. (1988), Mayhew, J. (1964), McClane, Albert Jules. (1974), McComish, T. S. (1967), McNally, Tom. (1970), McPhail, J. D., and C. C. Lindsey. (1970), Mergo, John C., Jr., and Andrew M. White. (1984), Migdalski, E. C. (1955), Miller, N. J. (1971), Miller, Rudolph J., and Henry W. Robinson. (1973), Mitzner, L. (1966), Mitzner, L. (1971), Moen, T. E. (1954), 1125, Moen, T. E. (1960), Moen, T. E. (1974), Morris, M. A., and Brooks M. Burr. (1982), Moyle, Peter B. (1976), Nelson, E. W. (1876), Nelson, W. R. (1961a), Nelson, W. R. (1962), Newton, S. H., and C. J. Haskins, J. M. Martin. (1981), Niculescu-Duvaz, M., and R. Giurca, V. Popovici. (1979), Nikonova, R. S., and T. V. Solomatina. (1981), Novokshonov, Yu. D. (1981), O'Donnell, D. J. (1935), Osburn, Raymond Carroll. (1901), Patriarche, M. H. (1953), Pearson, William D., and Louis A. Krumholz (1984), Perry, W. G. (1976), Pflieger, William L. (1971), Pflieger, William L. (1975), Phillips, Gary L., and William D. Schmid, James C. Underhill. (1982), Priegel, G. R. (1967), Prieto, A., and M. Vinjoy, E. Fajer. (1988), Proffitt, M. A., and R. S. Benda. (1971), Raciunas, L. (1985a), Raciunas, L. (1985b), Ricker, W. E. (1962), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Rosenthal, H. L., and M. M. Eves, O. A. Cochran. (1970), Rostlund, Erhard. (1951), Scidmore, W. J., and D. E. Woods. (1960), Scott, W. B. (1967), Scott, W. B., and E. J. Crossman. (1969), Scott, W. B., and E. J. Crossman. (1973), Shields, J. T. (1955a), Shields, J. T. (1956), Shields, J. T. (1957a), Shields, J. T. (1957b), Shields, J. T. (1958a), Shields, J. T. (1958b), Smith, C. Lavett. (1962), Smith, C. Lavett. (1986), Smith, Gerald R. (1963), Smith, Gerald R. (1966), Smith, Gerald R. (1981b), Smith, Gerald R., and J. G. Lundberg. (1972), Smith, Philip W. (1973), Smith, Philip W.

(1979), Sparks, Richard E., and William C. Starrett. (1975), Sprague, J. W. (1959a), Sprague, J. W. (1959b), Sprague, J. W. (1961), Stanley, J. G., and J. B. Jones. (1976), Starostka, V. J., and R. L. Applegate. (1970), Stevenson, J. H. (1964), Stewart, Kenneth W., and Iain M. Suthers, Kelly Leavesley. (1985), Swingle, H. S. (1956), Swingle, H. S. (1957), Swingle, W. E. (1965), Torrans, E. L., and H. P. Clemens. (1981), Torrans, L., and F. Lowell, H. Clemens. (1986), Trautman, Milton B. (1957), Trautman, Milton B. (1981), Trombitskii, I. D. (1984), Trombitsky, I. D. (1987), Tuten, J. S., and J. W. Avault, Jr. (1981), Valenciennes, Achille. (1844), Verigina, I. A. (1976), Wagner, G. (1908), Walburg, C. H. (1964), Walburg, C. H. (1976), Walburg, C. H., and W. R. Nelson. (1966), Walden, Howard T., 2d. (1964), Werner, Robert G. (1976a), Werner, Robert G. (1976b), Werner, Robert G. (1980), Willis, David W. (1979), Willis, David W., and J. B. Owen. (1978), Yashouv, A. (1958), Yurkevich, N. V. (1978),

Ictiobus cyprinellus **X** *Ictiobus niger.*
Margaritov, N. (1988), Williamson, J., and R. O. Smitherman. (1976),

Ictiobus cyprinus Le Sueur.
Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Jordan, David Starr, and Charles Henry Gilbert. (1884), Jordan, David Starr, and Seth Eugene Meek. (1885), Smith, Philip W. (1979),

Ictiobus damalis.
Jordan, David Starr, and Seth Eugene Meek. (1885),

Ictiobus difformis (Cope).
Jordan, David Starr, and Seth Eugene Meek. (1885), Meek, Seth Eugene. (1894),

Ictiobus elongatus (Meek).
Hubbs, Carl L., and J. D. Black. (1940),

Ictiobus grayi.
Jordan, David Starr, and Seth Eugene Meek. (1885),

Ictiobus labiosus (Meek, 1904).
Villar, José Alvarez del. (1970),

Ictiobus meridionalis (Günther, 1868).
Jordan, David Starr, and Barton Warren Evermann. (1896), Miller, Robert Rush. (1966), Nelson, Joseph S. (1976), Nelson, Joseph S. (1984), Villar, José Alvarez del. (1970),

Ictiobus microstomus (Meek).
Hubbs, Carl L., and J. D. Black. (1940),

Ictiobus niger (Rafinesque, 1820).
Black buffalo.
Adams, L. A. (1931), Andryushchenko, A. I., and T. G. Litvinova. (1978), Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Bailey, Reeve M., and Gerald R. Smith. (1981), (1954), Barnickol, P. G., and W. C. Starrett. (1951), Becker, George C. (1983), Berner, Lester M. (1948), Blinova, R. D., and A. N. Burlakova, E. M. Zaitseva. (1980), Borges, M. H. (1950), Boschung, Herbert T., Jr., and James D. Williams, Daniel W. Gotshall, David K. Caldwell, Melba C. Caldwell, Carol Nehring, Jordan Verner. (1983), Boyadjiev, A. (1983), Breder, C. M., Jr., and D. E. Rosen. (1966), Buck, D. H., and Frank B. Cross. (1952), Cahn, A. R. (1927), Caraiman, G., and Z. Pogan. (1981),

Carlander, Kenneth D. (1969), Carlander, Kenneth D., and J. W. Parsons. (1949), Carson, R. (1943), Clay, W. M. (1975), Cross, Frank B. (1967), Cross, Frank B., and Joseph T. Collins. (1975), Crossman, E. J., and S. J. Nepszy. (1979), Curry, Kevin D., and Anne Spacie. (1979), Deacon, James Everett. (1960), Douglas, Neil H. (1974), Eastman, Joseph T. (1977), Eastman, Joseph T. (1980), Eddy, Samuel. (1957), Eddy, Samuel. (1969), Elkin, R. E., Jr. (1954), Emery, Lee. (1976), Erokhina, L. V., and V. K. Vinogradov, V. V. Vychegzhanina. (1976), Eschmeyer, R. W., and R. H. Stroud, A. M. Jones. (1944), Fago, Don. (1982), Ferris, Stephen D., and Gregory S. Whitt. (1978), Finnell, Joe C. (1955), Fisher, H. J. (1962), Forbes, Stephen Alfred. (1884), Forbes, Stephen Alfred., and Robert Earl Richardson. (1908), Gammon, J. R. (1973), Georgescu, R., and P. Dascalescu, G. Caraiman. (1984), Giurca, R., and N. Angelescu. (1978), Greer, J. K., and Frank B. Cross. (1956), Hall, Gordon E. (1951), Hall, Gordon E., and R. M. Jenkins. (1953), Hancock, H. M. (1955), Hanson, W. D., and R. S. Campbell. (1963),.Hoffman, Glenn L. (1967), Hubbs, Carl L. (1945), Hubbs, Carl L., and Karl F. Lagler. (1941), Hubbs, Carl L., and Karl F. Lagler. (1947), Hubbs, Carl L., and Karl F. Lagler. (1974), Jenkins, J. T., and H. A. Semken. (1972), Jenkins, Robert M. (1953a), Jenkins, Robert M., and J. C. Finnell. (1957), Jenkins, Robert M., and E. M. Leonard, G. E. Hall. (1952), Jordan, David Starr. (1878a), Koster, William J. (1957), Krumholz, Louis A. (1943), Kurinnyi, S. A. (1984), Lambou, V. W. (1961), Large, T. (1903), Larimore, R. W., and P. W. Smith. (1963), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Les, B. L. (1979), Lopinot, Alvin C. (ed.). (1968), Margaritov, N. (1988), McNally, Tom. (1970), Mergo, John C., Jr., and Andrew M. White. (1984), Miller, Rudolph J., and Henry W. Robinson. (1973), Moen, T. E. (1960), Moen, T. E. (1970), Molya, S. P., and P. D. Arikov. (1988), Neff, Nancy A. (1975), Nelson, Edward M. (1948), Nelson, E. W. (1876), Newton, S. H., and C. J. Haskins, J. M. Martin. (1981), Niculescu-Duvaz, M., and R. Giurca, V. Popovici. (1979), O'Donnell, D. J. (1935), Patriarche, M. H. (1953), Pearson, William D., and Louis A. Krumholz (1984), Perry, W. G. (1976), Pflieger, William L. (1971), Pflieger, William L. (1975), Prieto, A., and M. Vinjoy, E. Fajer. (1988), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Smith, C. Lavett. (1962), Smith, Gerald R. (1981b), Smith, Philip W. (1965), Smith, Philip W. (1979), Sparks, Richard E., and William C. Starrett. (1975), Stevenson, J. H. (1964), Trautman, Milton B. (1957), Trautman, Milton B. (1981), Villar, José Alvarez del. (1970), Walden, Howard T., 2d. (1964), Werner, Robert G. (1976a), Werner, Robert G. (1976b), Yeager, Lee E. (1936),

Ictiobus niger **X** *Ictiobus cyprinellus*
Margaritov, N. (1988),

Ictiobus selene
Jordan, David Starr, and Seth Eugene Meek. (1885),

Ictiobus thomsoni.
Jordan, David Starr, and Seth Eugene Meek. (1885),

Ictiobus timidus.
Jordan, David Starr, and Seth Eugene Meek. (1885),

Ictiobus tumidus.
Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1886),

Ictiobus urus (Agassiz, 1854).
Razor-backed buffalo, Mongrel Buffalo, Round Buffalo.

Adams, L. A. (1928), Blatchley, W. S. (1938), Breder, C. M., Jr., and D. E. Rosen. (1966), Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Gunter, Gordon. (1938), Jordan, David Starr. (1929), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Barton Warren Evermann. (1905), Jordan, David Starr, and Charles Henry Gilbert. (1884), Meek, Seth Eugene. (1894), Meek, Seth Eugene, and S. F. Hildebrand. (1910), Nelson, Edward M. (1948), Smith, Philip W. (1979),

Ictiobus velifer (Rafinesque, 1820).
Quill-back, skim-back, carp sucker.
Hubbs, Carl L., and J. D. Black. (1940), Jones, David T. (1929), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1886), Jordan, David Starr, and Seth Eugene Meek. (1885), Meek, Seth Eugene. (1894),

Ictiorus
Eschmeyer, William N. (1990), Opinion 1582. (1990),.

Labeo cyprinus De Kay. 1842.
DeKay, James Ellsworth. (1842), Günther, Albert C. (1868),

Labeo elegans De Kay, 1842.
DeKay, James Ellsworth. (1842), Günther, Albert C. (1868), Jordan, David Starr, and Barton Warren Evermann. (1896),

Labeo elongatus De Kay, 1842.
DeKay, James Ellsworth. (1842), Girard, C. F. (1857), Jordan, David Starr, and Barton Warren Evermann. (1896),

Labeo esopus De Kay, 1842.
DeKay, James Ellsworth. (1842), Günther, Albert C. (1868),

Labeo gibbosus De Kay, 1842.
DeKay, James Ellsworth. (1842), Günther, Albert C. (1868),

Labeo oblongus De Kay, 1842.
DeKay, James Ellsworth. (1842), Günther, Albert C. (1868),

Lagochila Jordan and Brayton, 1877.
Eschmeyer, William N. (1990), Jordan, David Starr. (1923), Jordan, David Starr, and Alembert Winthrop Brayton. (1877), Meek, Seth Eugene. (1894), Miller, Robert Rush. (1958), Nelson, Edward M. (1948), Nelson, Edward M. (1949), Nelson, Joseph S. (1976), Nelson, Joseph S. (1984), Smith, Gerald R. (1966),

Lagochila lacera Jordan and Brayton, 1877.
Harelip Sucker, Hare-Lip Sucker, Split-Mouth Sucker, May Sucker, Pea-Lip Sucker, Rabbit-Mouth sucker, Cutlips.
Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Bailey, Reeve M., and Gerald R. Smith. (1981), (1954), Blatchley, W. S. (1938), Clay, W. M. (1975), Curry, Kevin D., and Anne Spacie. (1979), Eastman, Joseph T. (1977), Eastman, Joseph T. (1980), Eddy, Samuel. (1969), Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Hubbs, Carl L., and Karl F. Lagler. (1941), Hubbs, Carl L., and Karl F. Lagler. (1947), Hubbs, Carl L., and Karl F. Lagler. (1974), Jordan, David Starr. (1878b), Jordan, David Starr. (1878d), Jordan, David Starr. (1929), Jordan, David Starr, and Alembert Winthrop Brayton. (1877), Jordan, David Starr, and Barton Warren Evermann.

(1896), Jordan, David Starr, and Barton Warren Evermann. (1905), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Meek, Seth Eugene. (1894), Miller, Rudolph J., and H. E. Evans. (1965), Nelson, Edward M. (1948), Ono, R. Dana, and James D. Williams, Anne Wagner. (1983), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Trautman, Milton B. (1957), Trautman, Milton B. (1981), Werner, Robert G. (1976a), Werner, Robert G. (1976b),

Lipomyzon Cope, 1881.
Eschmeyer, William N. (1990), Fowler, Henry Weed. (1914a), Jordan, David Starr. (1923),

Lipomyzon brevirostris Cope, 1881.
Cope, Edward Drinker. (1881), Jordan, David Starr, and Barton Warren Evermann. (1896),

Maxostoma macrolepidotum.
Thompson, Peter. (1980),

Megapharynx Legendre, 1942.
Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Legendre, Vianney. (1942), Legendre, Vianney. (1943a), Legendre, Vianney. (1943b), Nelson, Edward M. (1948), Nelson, Edward M. (1949),

Megapharynx valenciennesi (Jordan, 1885).
Hubbs, Carl L., and Karl F. Lagler. (1947), Hubbs, Carl L., and Karl F. Lagler. (1974), Legendre, Vianney. (1942),

Megastomatobus Fowler, 1913.
Eschmeyer, William N. (1990), Fowler, Henry Weed. (1914a), Jordan, David Starr. (1923), Nelson, Edward M. (1948), Nelson, Edward M. (1949),

Megastomatobus cyprinella (Valenciennes, 1844).
Gourdhead buffalo, Red-mouth Buffalo, Bigmouth Buffalo. Blatchley, W. S. (1938), Hinks, David. (1943), Hubbs, Carl L., and Karl F. Lagler. (1941), Hubbs, Carl L., and Karl F. Lagler. (1947), Jordan, David Starr. (1929), Krumholz, Louis A. (1943), Nelson, Edward M. (1948), Schoffman, R. J. (1943), Scott, W. B. (1958), Smith, Philip W. (1979), Yashouv, A. (1958),

Megastomatolus cyprinella (Valenciennes, 1844).
Evans, W. A. (1950),

Minomus Girard, 1856.
Eschmeyer, William N. (1990), Girard, C. F. (1857), Jordan, David Starr. (1923), Jordan, David Starr, and Barton Warren Evermann. (1896),

Minomus bairdus Cope, 1872.
Jordan, David Starr, and Barton Warren Evermann. (1896),

Minomus bardus Cope, 1872.
Jordan, David Starr, and Barton Warren Evermann. (1896),

Minomus clarki.
Smith, Gerald R. (1966),

Minomus clarkii.
Smith, Gerald R. (1966),

Minomus delphinus Cope, 1872.
Jordan, David Starr, and Barton Warren Evermann. (1896), Smith, Gerald R. (1966),

Minomus insignis Girard, 1857.
Girard, C. F. (1857), Günther, Albert C. (1868), Jordan, David Starr, and Barton Warren Evermann. (1896),

Minomus jarrovii Cope, 1874.
Cope, Edward Drinker. (1874c), Cope, Edward Drinker, and H. C. Yarrow. (1875), Jordan, David Starr. (1923), Smith, Gerald R. (1966),

Minomus platyrhynchus Cope, 1874.
Cope, Edward Drinker. (1874c), Cope, Edward Drinker, and H. C. Yarrow. (1875), Jordan, David Starr, and Barton Warren Evermann. (1896),

Minomus plebius (Baird and Girard, 1855).
Günther, Albert C. (1868), Smith, Gerald R. (1966),

Minomus plebejus (Baird and Girard, 1855).
Günther, Albert C. (1868),

Minytrema Jordan, 1878.
Spotted Suckers.
Eschmeyer, William N. (1990), Fuiman, Lee A. (1985), Jordan, David Starr. (1878b), Jordan, David Starr. (1878d), Jordan, David Starr. (1923), Meek, Seth Eugene. (1894), Miller, Robert Rush. (1958), Nelson, Edward M. (1948), Nelson, Edward M. (1949), Nelson, Joseph S. (1976), Nelson, Joseph S. (1984), Yeager, Bruce L., and Kenneth J. Semmens. (1987),

Minytrema austrinum (Bean, 1879).
Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883),

Minytrema melanops (Rafinesque, 1820).
Spotted Sucker, Winter Sucker, Striped Sucker.
Agassiz, John Louis Rodolphe. (1854), Anderson, W. D. (1964), Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Bailey, Reeve M., and Gerald R. Smith. (1981), (1954), Becker, George C. (1983), Blatchley, W. S. (1938), Boschung, Herbert T., Jr., and James D. Williams, Daniel W. Gotshall, David K. Caldwell, Melba C. Caldwell, Carol Nehring, Jordan Verner. (1983), Branson, Branley A., and Donald L. Batch. (1974), Britton, J. C., and C. E. Murphy. (1977), Bur, M. T. (1976), Buth, Donald G. (1983), Carlander, Kenneth D. (1955), Carlander, Kenneth D. (1969), Chien, Shin Ming, and Wilmer A. Rogers. (1970), Christensen, B. M., and P. K. Wellner, L. N. Gleason. (1982), Christenson, L. M. (1957), Cincotta, Dan A., and Robert L. Miles, Michael E. Hoeft, Gerald E. Lewis. (1986), Clay, W. M. (1975), Combs, D. L., and J. P. Harley, J. C. Williams. (1977), Combs, D. L., and J. C. Williams, J. P. Harley. (1976), Coomer, C. E., Jr., and D. R. Holder, C. D. Swanson. (1977), Cooper, Edwin Lavern. (1983), Cross, Frank B. (1967), Cross, Frank B., and Joseph T. Collins. (1975), Crossman, E. J., and R. G. Ferguson. (1963), Curry, Kevin D., and Anne Spacie. (1979), Douglas, Neil H. (1974), Eastman, Joseph T. (1977), Eastman, Joseph T. (1980), Eddy, Samuel. (1957), Eddy,

Samuel. (1969), Eddy, Samuel, and Kenneth D. Carlander. (1942), Eddy, Samuel, and James C. Underhill. (1974), Elkin, R. E., Jr. (1954), Emery, Lee. (1976), Eshelman, Ralph E. (1975), Evans, James W., and Richard L. Noble. (1979), Fago, Don. (1984b), Fassbender, R. L., and J. J. Weber, L. M. Nelson. (1970), Ferris, Stephen D., and Gregory S. Whitt. (1978), Finnell, Joe C. (1955), Forbes, Stephen Alfred. (1884), Forbes, Stephen Alfred., and Robert Earl Richardson. (1908), Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Funk, J. L., and R. S. Campbell. (1953), Gleason, Larry N., and B. M. Christensen, Yui Tan Chung. (1983), Greene, C. W. (1935), Hall, Gordon E., and R. M. Jenkins. (1953), Grinham, T., and D. K. Cone. (1990), Harlan, J. R., and E. B. Speaker. (1956), Herald, Earl S. (1967), Herald, Earl S. (1979), Hildebrand, Samuel F., and William C. Schroeder. (1923),.Hoffman, Glenn L. (1967), Hoffman, C. H., and E. W. Surber. (1948), Hogue, J. J., Jr., and J. P. Buchanan. (1977), Hubbs, Carl L., and Karl F. Lagler. (1941), Hubbs, Carl L., and Karl F. Lagler. (1947), Hubbs, Carl L., and Karl F. Lagler. (1974), Hunn, J. B. (1972), Jackson, S. W., Jr. (1954), Jackson, S. W., Jr. (1957), Jackson, S. W., Jr. (1966), Jenkins, Robert M. (1953b), Jenkins, Robert M., and J. C. Finnell. (1957), Jordan, David Starr. (1878a), Jordan, David Starr. (1878b), Jordan, David Starr. (1929), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Barton Warren Evermann. (1905), Jordan, David Starr, and Charles Henry Gilbert. (1883), Krumholz, Louis A. (1943), Lambou, V. W. (1961), Large, T. (1903), Larimore, R. W., and P. W. Smith. (1963), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Lopinot, Alvin C. (ed.). (1968), Martin, R. G., and R. S. Campbell. (1953), Maruney, Morris, Jr., and George L. Harp. (1979), McClane, Albert Jules. (1974), McSwain, L. E., and R. M. Gennings. (1972), Meek, Seth Eugene. (1891), Meek, Seth Eugene. (1894), Meek, Seth Eugene, and S. F. Hildebrand. (1910), Miller, Rudolph J., and H. E. Evans. (1965), Miller, Rudolph J., and Henry W. Robinson. (1973), Minckley, W. L. (1963), Minckley, W. L., and R. H. Goodyear, J. E. Craddock. (1964), Nelson, Edward M. (1948), Nelson, E. W. (1876), Noland, W. E. (1951), O'Donnell, D. J. (1935), Parker, B., and P. McKee. (1984a), Pearson, William D., and Louis A. Krumholz (1984), Pflieger, William L. (1971), Pflieger, William L. (1975), Phillips, Gary L., and William D. Schmid, James C. Underhill. (1982), Phillips, Gary L., and James C. Underhill. (1971), Pickens, A. L. (1928), Priegel, G. R. (1967), Rafinesque, Constantine Samuel. (1820a), Roberts, J. R. (1967), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Rogers, Wilmer A. (1967), Scott, W. B. (1967), Scott, W. B., and E. J. Crossman. (1969), Scott, W. B., and E. J. Crossman. (1973), Shih, M. C., and W. A. Rogers. (1970), Smith, C. G., and W. M. Lewis, H. M. Kaplan. (1952), Smith, C. Lavett. (1986), Smith, Gerald R. (1981b), Smith, Philip W. (1963), Smith, Philip W. (1965), Smith, Philip W. (1968), Smith, Philip W. (1973), Smith, Philip W. (1979), Sterba, Günther. (1983), Swift, Camm, and Ralph W. Yerger, Patrick R. Parrish. (1977), Swingle, W. E. (1965), Trautman, Milton B. (1957), Trautman, Milton B. (1981), Tsuyuki, H., and E. Roberts, R. H. Kerr, J. F. Uthe, L. W. Clarke. (1967), Viosca, Percy, Jr. (1952), 1622, Welter, Wilfred A. (1938), Werner, Robert G. (1976a), Werner, Robert G. (1976b), Werner, Robert G. (1980), White, D. S. (1975), White, D. S. (1977), White, D. S., and K. H. Haag. (1977), Williams, E. H., Jr., and W. A. Rogers. (1982), Williams, E. H., Jr., and W. A. Rogers. (1984), Winger, P. V., and D. P. Schultz, W. W. Johnson. (Undated),

Minytrema shevyrevi.
Sytchevskaya, 1986 Sytchevskaya, E. K. (1986),

Mofoxostoma congestum (Baird and Girard).
Villar, José Alvarez del. (1970),

Moxostoma Rafinesque, 1820.
Red Horse.

Agassiz, John Louis Rodolphe. (1855), Black, J. J. (1984), Branson, Branley A., and George A. Moore. (1962), Buth, Donald G. (1978), Buth, Donald G. (1979a), Buth, Donald G. (1982), Curry, Kevin D., and Anne Spacie. (1984), Donahue, J., and R. Stuckenrath, J. M. Adovasio, et al. (1978), Eschmeyer, William N. (1990), Fowler, Henry Weed. (1914a), Fuiman, Lee A. (1985), Günther, Albert C. (1868), Hocutt, C. H. (1979), Jacobs, K. E., and W. D. Swink. (1983), Jordan, David Starr. (1923), Lagler, Karl F., and John E. Bardach, Robert Rush Miller. (1962), Lowe, T. P., and T. W. May, W. G. Brumbaugh, D. A. Kane. (1985), Massé, G. (1977), Meek, Seth Eugene. (1894), Mergo, John C., Jr., and Andrew M. White. (1984), Miller, Robert Rush. (1958), Moyle, Peter B., and Joseph J. Cech, Jr. (1982), Myers, George Sprague. (1949), Nelson, Edward M. (1948), Nelson, Edward M. (1949), Nelson, Joseph S. (1976), Nelson, Joseph S. (1984), Rafinesque, Constantine Samuel. (1820b), Ramamoorthy, S., and J. W. Moore, L. George. (1985), Raney, Edward C., and Robert M. Roecker. (1947), Richardson, Laurence R. (1942), Roberts, Tyson R. (1973), Robins, C. Richards, and Edward C. Raney. (1956), Robins, C. Richards, and Edward C. Raney. (1957a), Robins, C. Richards, and Edward C. Raney. (1957b), Romer, Alfred Sherwood. (1966), Scott, W. B. (1954), Scott, W. B. (1967), Smith, Gerald R. (1981b), Smith, Michael L., and Ted M. Cavender, Robert R. Miller. (1975), Smith, S. H. (1968), Sterba, Günther. (1983), Swink, W. D., and K. E. Jacobs. (1983), Williams, E. H., Jr., and W. A. Rogers. (1982),

Moxostoma albidum (Girard, 1857).

Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883),

Moxostoma album Cope, 1870.

Jordan, David Starr. (1878d), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883),

Moxostoma alleghaniensis Nichols, 1911.

Nichols, John Treadwell. (1911),

Moxostoma anisurum (Rafinesque, 1820).

Silver redhorse, White-Nosed Sucker.

Atton, F. M., and R. P. Johnson. (1955), Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Bailey, Reeve M., and Gerald R. Smith. (1981), (1954), Barwick, D. H., and P. L. Hudson. (undated), Becker, George C. (1983), Bensley, B. A. (1915), Beverly-Burton, Mary. (1984), Blatchley, W. S. (1938), Breder, C. M., Jr., and D. E. Rosen. (1966), Bur, M. T. (1976), Buth, Donald G. (1978), Carlander, Kenneth D. (1944b), Carlander, Kenneth D. (1948), Carlander, Kenneth D. (1969), Clay, W. M. (1975), Cooper, Edwin Lavern. (1983), Crossman, E. J. (1976), Curry, Kevin D., and Anne Spacie. (1979), Dechtiar, A. O. (1972a), Dechtiar, A. O. (1972b), Eastman, Joseph T. (1977), Eastman, Joseph T. (1980), Eddy, Samuel. (1957), Eddy, Samuel. (1969), Eddy, Samuel, and Roy C. Tasker, James C. Underhill. (1972), Eddy, Samuel, and James C. Underhill. (1974), Emery, Lee. (1976), Fago, Don. (1984b), Fish, M. P. (1932), Forbes, Stephen Alfred. (1884), Forbes, Stephen Alfred., and Robert Earl Richardson. (1908), Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Fowler, Henry Weed. (1945), Grinham, T., and D. K. Cone. (1990), Haas, Robert L. (1943), Harlan, J. R., and E. B. Speaker. (1956), Harrison, H. M. (1950), Henderson, N. E., and R. E. Peter. (1969),.Hoffman, Glenn L. (1967), Hinks, David. (1943), Hubbs, Carl L., and Karl F. Lagler. (1941), Hubbs, Carl L., and Karl F. Lagler. (1947), Hubbs, Carl L., and Karl F. Lagler. (1974), Hubert, Wayne A., and Dennis N. Schmitt. (1985), Jenkins, Robert E. (1970), Jordan, David Starr. (1878a), Jordan, David Starr. (1929), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Barton Warren Evermann.

(1905), Jordan, David Starr, and Charles Henry Gilbert. (1883), Keleher, J. J., and B. Kooyman. (1957), Kennicott, Robert. (1855), Krumholz, Louis A. (1943), Lagler, Karl F., and John E. Bardach, Robert Rush Miller. (1962), Large, T. (1903), Larimore, R. W., and P. W. Smith. (1963), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), McAllister, Don E., and Brian W. Coad. (1974), McClane, Albert Jules. (1974), McLain, A. L., and B. R. Smith, H. H. Moore. (1965), Meek, Seth Eugene, and S. F. Hildebrand. (1910), Mergo, John C., Jr., and Andrew M. White. (1982), Meyer, W. H. (1961), Meyer, W. H. (1962), Miller, Rudolph J., and H. E. Evans. (1965), Minckley, W. L., and R. H. Goodyear, J. E. Craddock. (1964), Morgan, R. P., II, and R. E. Smith, Jr., J. R. Stauffer, Jr. (1983), Nelson, Edward M. (1948), Nelson, E. W. (1876), Paetz, Martin J., and Joseph S. Nelson. (1970), Pearson, William D., and Louis A. Krumholz (1984), Pflieger, William L. (1971), Pflieger, William L. (1975), Phillips, Gary L., and William D. Schmid, James C. Underhill. (1982), Purkett, C. A., Jr. (1958b), Rafinesque, Constantine Samuel. (1820a), Richardson, Laurence R. (1938), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Scott, W. B. (1954), Scott, W. B. (1958), Scott, W. B. (1967), Scott, W. B., and E. J. Crossman. (1969), Scott, W. B., and E. J. Crossman. (1973), Seegert, Greg. (1986), Sibley, C. K. (1929), Smith, C. G. (1977), Smith, C. Lavett. (1986), Smith, Gerald R. (1966), Smith, Gerald R. (1981b), Smith, Hugh M. (1893), Smith, Philip W. (1965), Smith, Philip W. (1973), Smith, Philip W. (1979), Toner, G. C. (1933), Trautman, Milton B. (1957), Trautman, Milton B. (1981), Vladykov, Vadim D. (1942), Welter, Wilfred A. (1938), Werner, Robert G. (1976a), Werner, Robert G. (1976b), Werner, Robert G. (1980), Whitaker, J. O., and D. C. Wallace. (1966), Wooding, Frederick H. (1959),

Moxostoma anisurus (Rafinesque, 1820).
Jordan, David Starr, and Barton Warren Evermann. (1896),

Moxostoma ariommum Robins and Raney, 1956.
Bigeye jumprock.
Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Buth, Donald G. (1978), Eddy, Samuel. (1969), Jenkins, Robert E. (1970), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Robins, C. Richard. (1961), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Robins, C. Richards, and Edward C. Raney. (1956),

Moxostoma (Thoburnia) atripinne Bailey, 1959.
Blackfin sucker.
Bailey, Reeve M. (1959), Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Carlander, Kenneth D. (1969), Clay, W. M. (1975), Eddy, Samuel. (1969), Jenkins, Robert E. (1970), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Timmons, T. J., and J. S. Ramsey. (1983), Timmons, T. J., and W. A. Rogers. (1977),

Moxostoma aureolum (Le Sueur, 1817).
Common Red-Horse, Mullet, White Sucker, Large-Scaled Sucker.
Blatchley, W. S. (1938), Carlander, Kenneth D. (1948), Carlander, Kenneth D., and Lloyd L. Smith, Jr. (1945), Comeau, Napoléon A. (1915), Cross, Frank B., and Artie L. Metcalf.

(1963), Dugal, L. C. (1962), Dymond, J. R., and W. B. Scott. (1941), Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Friedrich, George W. (1933), Greenbank, J. (1957), Grinham, T., and D. K. Cone. (1990), Haas, Robert L. (1943), Hall, Gordon E., and George A. Moore. (1954), Hankinson, T. L. (1923), Hinks, David. (1943), Hubbs, Carl L., and Karl F. Lagler. (1941), Hubbs, Carl L., and Karl F. Lagler. (1947), Jordan, David Starr. (1929), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Barton Warren Evermann. (1905), Keleher, J. J., and B. Kooyman. (1957), Krumholz, Louis A. (1943), La Monte, Francesca. (1958), Lantz, A. W. (1948b), Larimore, R. W., and P. W. Smith. (1963), Lindeborg, R. G. (1941), Lower, A. R. M. (1915), Meek, Seth Eugene, and S. F. Hildebrand. (1910), Minckley, W. L., and Frank B. Cross. (1960), Moore, G. A., and Frank B. Cross. (1950), Nelson, Edward M. (1948), Nigrelli, R. F. (1948), Reighard, Jacob E. (1920), Riggs, C. D., and G. A. Moore. (1963), Robins, C. Richards, and Edward C. Raney. (1957a), Scott, W. B. (1954), Scott, W. B. (1958), Shelford, Victor E. (1911a), Shelford, Victor E. (1937), Simon, James R. (1946), Smith, Philip W. (1979), Trautman, Milton B. (1981), Vladykov, Vadim D. (1933), Vladykov, Vadim D. (1942), Walters, Vladimir. (1953), Walters, V. (1955), Weed, Alfred Cleveland. (1921), Wooding, Frederick H. (1959),

Moxostoma aureolum pisolabrum Trautman and Martin, 1951. Deacon, James Everett. (1960), Riggs, C. D., and G. A. Moore. (1963), Trautman, Milton B., and R. G. Martin. (1951),

Moxostoma aureolus (Le Sueur, 1817).
Goode, C. Brown, and Theodore Nicholas Gill. (1903),

Moxostoma austrinum (Bean, 1879).
West Mexican redhorse.
Buth, Donald G. (1978), Jenkins, Robert E. (1970), Jordan, David Starr, and Barton Warren Evermann. (1896), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986),

Moxostoma austrinum austrinum (Bean, 1879).
Villar, José Alvarez del. (1970),

Moxostoma austrinum milleri Robins and Raney, 1957.
Buth, Donald G. (1978), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Robins, C. Richards, and Edward C. Raney. (1957b), Villar, José Alvarez del. (1970),

Moxostoma breviceps (Cope, 1870).
Short-headed Red-Horse.
Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Blatchley, W. S. (1938), Breder, C. M., Jr., and D. E. Rosen. (1966), Carlander, Kenneth D. (1969), Cope, Edward Drinker. (1870), Eddy, Samuel. (1957), Eddy, Samuel. (1969), Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Grinham, T., and D. K. Cone. (1990),.Hoffman, Glenn L. (1967), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Barton Warren Evermann. (1905), Larimore, R. W., and P. W. Smith. (1963), Meek, Seth Eugene, and S. F. Hildebrand. (1910), Miller, Rudolph J., and H. E. Evans. (1965), Minckley, W. L. (1963), Minckley, W. L., and R. H. Goodyear, J. E. Craddock. (1964), Riggs, C. D., and G. A. Moore. (1963), Robins, C. Richards, and Edward C. Raney. (1957a), Shelford, Victor E. (1911a), Shelford, Victor E. (1937), Smith, Philip W. (1979), Trautman, Milton B. (1957), Ward, C. M. (1960), Whitaker, J. O., and D. C. Wallace. (1966),

Moxostoma bucco (Cope, 1872).

Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883),

Moxostoma campbelli Girard, 1857.

Girard, C. F. (1857), Günther, Albert C. (1868), Jordan, David Starr, and Barton Warren Evermann. (1896),

Moxostoma carinatum (Cope, 1870).

River redhorse.

Anonymous. (1965a), Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Bailey, Reeve M., and Gerald R. Smith. (1981), (1954), Becker, George C. (1976), Becker, George C. (1983), Boschung, Herbert T., Jr., and James D. Williams, Daniel W. Gotshall, David K. Caldwell, Melba C. Caldwell, Carol Nehring, Jordan Verner. (1983), Buth, Donald G. (1978), Clay, W. M. (1975), Cooper, Edwin Lavern. (1983), Cope, Edward Drinker. (1870), Cross, Frank B. (1967), Cross, Frank B., and Joseph T. Collins. (1975), Curry, Kevin D., and Anne Spacie. (1979), Douglas, Neil H. (1974), Eastman, Joseph T. (1977), Eddy, Samuel. (1957), Eddy, Samuel. (1969), Eddy, Samuel, and James C. Underhill. (1974), Elkin, R. E., Jr. (1954), Fago, Don. (1982), Fago, Don. (1984b), Finnell, Joe C. (1955), Forbes, Stephen Alfred. (1884), Forbes, Stephen Alfred. (1890), Forbes, Stephen Alfred., and Robert Earl Richardson. (1908), Gerking, Shelby D. (1945), Guilday, J. E., and H. W. Hamilton, E. Anderson, et al. (1978), Hackney, P. A., and W. M. Tatum, S. L. Spencer. (1968), Hall, Gordon E., and R. M. Jenkins. (1953), Hall, Gordon E., and George A. Moore. (1954), Howell, W. Mike, and David E. Butts. (1983), Hubbs, Carl L., and Karl F. Lagler. (1974), Jackson, S. W., Jr. (1954), Jacobs, K. E., and W. D. Swink. (1983), Jenkins, Robert E. (1970), Jenkins, Robert M. (1953b), Jordan, David Starr. (1878a), Large, T. (1903), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Lopinot, Alvin C., and Philip W. Smith. (1973), Martin, R. G., and R. S. Campbell. (1953), McAllister, Don E., and Brian W. Coad. (1974), Miller, Rudolph J., and Henry W. Robinson. (1973), Mills, Paul A., Jr., and Charles H. Hocutt, Jay R. Stauffer, Jr. (1978), Nelson, E. W. (1876), O'Donnell, D. J. (1935), Parker, B. J. (1988), Parker, B., and P. McKee. (1984b), Patriarche, M. H. (1953), Pearson, William D., and Louis A. Krumholz (1984), Pflieger, William L. (1971), Pflieger, William L. (1975), Phillips, Gary L., and William D. Schmid, James C. Underhill. (1982), Phillips, Gary L., and James C. Underhill. (1971), Platt, D. R., and Frank B. Cross, D. Distler, O. S. Fent, E. R. Hall, M. Terman, J. Zimmerman, J. Walstrom. (1973), Purkett, C. A., Jr. (1958b), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Robins, C. Richards, and Edward C. Raney. (1957a), Rogers, Wilmer A. (1969), Roosa, D. M. (1977), Scott, W. B. (1958), Scott, W. B. (1967), Scott, W. B., and E. J. Crossman. (1969), Scott, W. B., and E. J. Crossman. (1973), Seegert, Greg. (1986), Smith, C. Lavett. (1986), Smith, Philip W. (1965), Smith, Philip W. (1973), Smith, Philip W. (1979), Swingle, W. E. (1965), Tatum, W. M., and P. A. Hackney. (1973), Trautman, Milton B. (1957), Trautman, Milton B. (1981), Ward, C. M. (1960), Werner, Robert G. (1976a), Werner, Robert G. (1976b), Werner, Robert G. (1980), White, A. M., and Milton B. Trautman. (1981), Williams, E. H., Jr. (1978), Yerger, R. W., and R. D. Suttkus. (1962), Yoder, Chris O., and Raymond A. Beaumier. (1986),

Moxostoma carinatus.

Scott, W. B. (1954),

Moxostoma carpio (Rafinesque, 1820).

Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883), Smith, Philip W. (1979),

Moxostoma cervinum (Cope, 1868).

Black jumprock.

Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Boschung, Herbert T., Jr., and James D. Williams, Daniel W. Gotshall, David K. Caldwell, Melba C. Caldwell, Carol Nehring, Jordan Verner. (1983), Buth, Donald G. (1978), Eddy, Samuel. (1969), Ferris, Stephen D., and Gregory S. Whitt. (1978), Jenkins, Robert E. (1970), Jordan, David Starr. (1878d), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Pickens, A. L. (1928), Raney, Edward C., and Ernest A. Lachner. (1946a), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980),

Moxostoma claviformis Girard, 1857.

Girard, C. F. (1857), Günther, Albert C. (1868),

Moxostoma collapsum (Cope, 1870).

Small-Mouthed Red Horse.

Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Eddy, Samuel. (1969), Fowler, Henry Weed. (1945), Jordan, David Starr. (1929), Jordan, David Starr, and Barton Warren Evermann. (1896), Miller, Rudolph J., and H. E. Evans. (1965), Smith, Gerald R. (1966), Smith, Hugh M. (1893),

Moxostoma congestum (Baird and Girard, 1855).

Gray redhorse, Texas Red Horse.

Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Buth, Donald G. (1978), Carlander, Kenneth D. (1969), Cowley, D. E., and J. E. Sublette. (1989), Dietz, E. M. C., and K. C. Jurgens. (1963), Eddy, Samuel. (1957), Eddy, Samuel. (1969), Ferris, Stephen D., and Gregory S. Whitt. (1978), Fowler, Henry Weed. (1904), Jenkins, Robert E. (1970), Jordan, David Starr, and Barton Warren Evermann. (1896), Koster, William J. (1957), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Martin, R. F. (1986), Nelson, Joseph S. (1976), Nelson, Joseph S. (1984), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Robins, C. Richards, and Edward C. Raney. (1957a), Robinson, Dorthea Trevino. (1959), Xiong Quanimo. (1988),

Moxostoma congestum albidum Robins and Raney, 1975.

Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Villar, José Alvarez del. (1970),

Moxostoma congestum congestum (Baird and Girard, 1854).

Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Villar, José Alvarez del. (1970),

Moxostoma conus (Cope, 1870).

Jordan, David Starr. (1878d), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883),

Moxostoma coregonus (Cope).

Blue Mullet.

Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Eddy, Samuel. (1969), Jordan, David Starr. (1878d), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883), Miller, Rudolph J., and H. E. Evans. (1965), Robins, C. Richards, and Edward C. Raney. (1957a),

Moxostoma crassilabre (Cope, 1870).

Golden Mullet.

Fowler, Henry Weed. (1945), Jordan, David Starr. (1890), Jordan, David Starr. (1929), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Barton Warren Evermann. (1905), Jordan, David Starr, and Charles Henry Gilbert. (1883), Smith, Hugh M. (1893),

Moxostoma duquesnei (Le Sueur, 1817).

Black redhorse, Common red horse, mullet, Allegheny Red Horse.

Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Bailey, Reeve M., and Gerald R. Smith. (1981), (1954), Bauer, Bruce H., and Branley A. Branson, Strant T. Colwell. (1978), Becker, George C. (1983), Boschung, Herbert T., Jr., and James D. Williams, Daniel W. Gotshall, David K. Caldwell, Melba C. Caldwell, Carol Nehring, Jordan Verner. (1983), Bowman, M. L. (1954), Bowman, M. L. (1959), Bowman, M. L. (1970), Branson, Branley A., and Donald L. Batch. (1974), Buth, Donald G. (1978), Buth, Donald G. (1983), Carlander, Kenneth D. (1969), Clay, W. M. (1975), Cooper, Edwin Lavern. (1983), Cross, Frank B. (1967), Cross, Frank B., and Joseph T. Collins. (1975), Curry, Kevin D., and Anne Spacie. (1979), Curry, Kevin D., and Anne Spacie. (1984), Eastman, Joseph T. (1977), Eddy, Samuel. (1957), Eddy, Samuel. (1969), Eddy, Samuel, and James C. Underhill. (1974), Emery, Lee. (1976), Evermann, Barton Warren, and W. C. Kendall. (1895), Ferris, Stephen D., and Gregory S. Whitt. (1978), Forbes, Stephen Alfred., and Robert Earl Richardson. (1908), Fowler, Henry Weed. (1945), Funk, J. L. (1957), Gale, N. L. and B. G. Wixson. (1986), Gilbert, Charles Henry. (1891), Greene, C. W. (1935), Guilday, J. E., and H. W. Hamilton, E. Anderson, et al. (1978), Hall, Gordon E., and R. M. Jenkins. (1953),.Hoffman, Glenn L. (1967), Jackson, S. W., Jr. (1966), Jenkins, Robert E. (1970), Kennicott, Robert. (1855), Kott, E., and R. E. Jenkins, G. Humphreys. (1979), Larimore, R. W., and P. W. Smith. (1963), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Mackiewicz, J. S. (1972), Marin, R. G., and R. S. Campbell. (1953), Martin, R. G., and R. S. Campbell. (1953), Meek, Seth Eugene. (1894), Miller, Rudolph J., and Henry W. Robinson. (1973), Mills, Paul A., Jr., and Charles H. Hocutt, Jay R. Stauffer, Jr. (1978), Minckley, W. L., and R. H. Goodyear, J. E. Craddock. (1964), Moyle, J. B. (1975), Patriarche, M. H. (1953), Patriarche, M. H., and R. S. Campbell. (1958), Pearson, William D., and Louis A. Krumholz (1984), Pflieger, William L. (1971), Pflieger, William L. (1975), Phillips, Gary L., and William D. Schmid, James C. Underhill. (1982), Phillips, Gary L., and James C. Underhill. (1971), Purkett, C. A., Jr. (1958b), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Roosa, D. M. (1977), Schmitt, Christopher J., and F. James Dwyer, Susan E. Finger. (1984), Schmitt, Christopher J., and S. E. Finger. (1987), Scott, W. B. (1958), Scott, W. B. (1967), Scott, W. B., and E. J. Crossman. (1969), Scott, W. B., and E. J. Crossman. (1973), Seegert, Greg. (1986), Sibley, C. K. (1929), Smith, C. G. (1977), Smith, C. Lavett. (1986), Smith, Gerald R. (1963), Smith, Philip W. (1965), Smith, Philip W. (1973), Smith, Philip

W. (1979), Trautman, Milton B. (1957), Trautman, Milton B. (1981), Uyeno, Teruya, and Robert Rush Miller. (1963), Ward, C. M. (1960), Werner, Robert G. (1976a), Werner, Robert G. (1976b), Werner, Robert G. (1980), Yerger, R. W., and R. D. Suttkus. (1962),

Moxostoma duquesni (Le Sueur, 1817).

Black redhorse.

Holey, M., and B. Hollender, M. Imhof, R. Jesien, R. Konopacky, M. Toneys, D. Coble. (1980),

Moxostoma duquesnii (Le Sueur, 1817).

Allegheny Red Horse.

Hubbs, Carl L., and Karl F. Lagler. (1947), Hubbs, Carl L., and Karl F. Lagler. (1974), Jordan, David Starr. (1929), Miller, Rudolph J., and H. E. Evans. (1965), Nelson, Edward M. (1948), Scott, W. B. (1954),

Moxostoma duquesnii duquesnii (Le Sueur, 1817).

Black redhorse.

Haas, Robert L. (1943), Hubbs, Carl L., and Karl F. Lagler. (1941), Raney, Edward C. (1939),

Moxostoma erythrurum (Rafinesque, 1818).

Golden redhorse.

Aliff, J.U., and D. Smith, H. Lucas. (1977), Amin, O. M. (1981), Amin, Omar M. (1986b), Anonymous. (1978), Anonymous. (1981), Bailey, Reeve M., and Marvin O. Allum. (1962), Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Bailey, Reeve M., and Gerald R. Smith. (1981), (1954), Bauer, Bruce H., and Branley A. Branson, Strant T. Colwell. (1978), Becker, George C. (1983), Beverly-Burton, Mary. (1984), Boschung, Herbert T., Jr., and James D. Williams, Daniel W. Gotshall, David K. Caldwell, Melba C. Caldwell, Carol Nehring, Jordan Verner. (1983), Branson, Branley A., and Donald L. Batch. (1974), Breder, C. M., Jr., and D. E. Rosen. (1966), Brown, E. H., Jr. (1960), Bur, M. T. (1976), Buth, Donald G. (1978), Buth, Donald G. (1983), Call, R. E. (1887), Carlander, Kenneth D. (1969), Clarke, R. F., and J. W. Clarke. (1984), Clay, W. M. (1975), Combs, D. L., and J. P. Harley, J. C. Williams. (1977), Combs, D. L., and J. C. Williams, J. P. Harley. (1976), Cooper, Edwin Lavern. (1983), Cross, Frank B. (1967), Cross, Frank B., and Joseph T. Collins. (1975), Curry, Kevin D., and Anne Spacie. (1979), Curry, Kevin D., and Anne Spacie. (1984), Deacon, James Everett. (1960), Deacon, James Everett. (1961), Dechtiar, A. O. (1972a), Dechtiar, A. O. (1972b), Dorkin, John L., Jr. (1980), Eastman, Joseph T. (1977), Eastman, Joseph T. (1980), Eddy, Samuel. (1957), Eddy, Samuel. (1969), Eddy, Samuel, and Roy C. Tasker, James C. Underhill. (1972), Eddy, Samuel, and James C. Underhill. (1974), Elkin, R. E., Jr. (1954), Emery, Lee. (1976), Eschmeyer, R. W. (1942), Eschmeyer, R. W., and R. H. Stroud, A. M. Jones. (1944), Fago, Don. (1984b), Fernholz, W. B., and V. E. Crawley. (1977), Ferris, Stephen D., and Gregory S. Whitt. (1978), Finnell, Joe C. (1955), Forbes, Stephen Alfred. (1884), Forbes, Stephen Alfred., and Robert Earl Richardson. (1908), Fowler, Henry Weed. (1945), Franzin, W. G., and B. R. Parker, S. M. Harbicht. (1986), Fredrickson, L. H., and M. J. Ulmer. (1965), Fuiman, Lee A., and D. C. Witman. (1979), Funk, J. L. (1957), Gammon, J. R. (1973), Gammon, J. R. (1977), Gerking, Shelby D. (1953), Greene, C. W. (1935), Greer, J. K., and Frank B. Cross. (1956), Guilday, J. E., and H. W. Hamilton, E. Anderson, et al. (1978), Hall, Gordon E., and George A. Moore. (1954), Hankinson, T. L. (1932), Hanson, W. D., and R. S. Campbell. (1963), Hargis, H. L. (1966), Harrison, H. M. (1950),.Hoffman, Glenn L. (1967), Houser, A. (1960), Hubbs, Carl L., and Karl F. Lagler. (1941), Hubbs, Carl L., and Karl F. Lagler. (1947), Hubbs, Carl L., and Karl F. Lagler. (1974), Jackson, S. W., Jr. (1954), Jackson, S. W., Jr. (1966), Jenkins, Robert E. (1970), Jenkins, Robert M.,

and J. C. Finnell. (1957), Jenkins, Robert M., and E. M. Leonard, G. E. Hall. (1952), Jordan, David Starr. (1878a), Krumholz, Louis A. (1943), Krumholz, Louis A. (1956), Lagler, Karl F., and John E. Bardach, Robert Rush Miller. (1962), Large, T. (1903), Larimore, R. W., and P. W. Smith. (1963), Layher, W. G., and K. L. Brunson. (1986), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Lewis, W. M. (1957), Lewis, W. M., and D. Elder. (1953), Lopinot, Alvin C. (1966a), Mackiewicz, J. S. (1972), Marenchin, Ginger Lee, and David M. Sever. (1981), Marin, R. G., and R. S. Campbell. (1953), Martin, R. E., and S. I. Auerbach, D. J. Nelson. (1964), Maruney, Morris, Jr., and George L. Harp. (1979), Maurakis, Eugene G., and William S. Woolcott. (1984), Meek, Seth Eugene. (1891), Meyer, W. H. (1962), Miller, Rudolph J., and H. E. Evans. (1965), Miller, Rudolph J., and Henry W. Robinson. (1973), Mills, Paul A., Jr., and Charles H. Hocutt, Jay R. Stauffer, Jr. (1978), Minckley, W. L. (1963), Minckley, W. L., and R. H. Goodyear, J. E. Craddock. (1964), Morgan, R. P., II, and R. E. Smith, Jr., J. R. Stauffer, Jr. (1983), Nelson, Edward M. (1948), Nelson, E. W. (1876), O'Donnell, D. J. (1935), Page, Lawrence M. (1982), Patriarche, M. H., and R. S. Campbell. (1958), Pearson, William D., and Louis A. Krumholz (1984), Pflieger, William L. (1971), Pflieger, William L. (1975), Phillips, Gary L., and William D. Schmid, James C. Underhill. (1982), Purkett, C. A., Jr. (1958b), Rafinesque, Constantine Samuel. (1818b), Raney, Edward C. (1952), Reighard, Jacob E. (1920), Roach, L. S. (1948b), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Schmitt, Christopher J., and F. James Dwyer, Susan E. Finger. (1984), Scott, W. B. (1954), Scott, W. B. (1958), Scott, W. B. (1967), Scott, W. B., and E. J. Crossman. (1969), Scott, W. B., and E. J. Crossman. (1973), Seegert, Greg. (1986), Smith, C. G. (1977), Smith, C. Lavett. (1986), Smith, Gerald R. (1963), Smith, Gerald R. (1981b), Smith, Philip W. (1965), Smith, Philip W. (1973), Smith, Philip W. (1979), Swingle, W. E. (1965), Trautman, Milton B. (1957), Trautman, Milton B. (1981), Uthe, J. F. (1965), Ward, C. M. (1960), Werner, Robert G. (1976a), Werner, Robert G. (1976b), Werner, Robert G. (1980), Xiong Quanimo. (1988), Zabik, M. E., and B. Olson, T. M. Johnson. (1978),

Moxostoma fungidens Sytchevskaya, 1986.
Sytchevskaya, E. K. (1986),

Moxostoma hamiltoni (Raney and Lachner, 1946).
Rustyside sucker.
Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Buth, Donald G. (1977a), Buth, Donald G. (1978), Eddy, Samuel. (1969), Jenkins, Robert E. (1970), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Robins, C. Richard. (1961), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980),

Moxostoma hubbsi Legendre, 1952.
Copper redhorse.
Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Buth, Donald G. (1978), Buth, Donald G. (1982), Eastman, Joseph T. (1977), Eddy, Samuel. (1969), Hubbs, Carl L., and Karl F. Lagler. (1974), Jenkins, Robert E. (1970), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Legendre, Vianney. (1942), Massé, G. (1977), Mongeau, J. -R., and P. Dumont, L. Cloutier. (1986), Mongeau, J. -R., and P. Dumont, L. Cloutier, A.-M. Clement. (1988), Ono, R. Dana, and James D. Williams, Anne Wagner. (1983), Robins, C. Richard,

and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Scott, W. B. (1954), Scott, W. B. (1958), Scott, W. B. (1967), Scott, W. B., and E. J. Crossman. (1969), Scott, W. B., and E. J. Crossman. (1973), Trautman, Milton B. (1981), Werner, Robert G. (1976a), Werner, Robert G. (1976b),

Moxostoma kennerlii Girard, 1857.
Girard, C. F. (1857), Günther, Albert C. (1868),

Moxostoma kennerlyi Girard, 1857.
Girard, C. F. (1857), Jordan, David Starr, and Barton Warren Evermann. (1896),

Moxostoma lachneri Robins and Raney, 1956.
Greater jumprock.
Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Boschung, Herbert T., Jr., and James D. Williams, Daniel W. Gotshall, David K. Caldwell, Melba C. Caldwell, Carol Nehring, Jordan Verner. (1983), Burr, Brooks M. (1979), Buth, Donald G. (1978), Buth, Donald G. (1982), Eddy, Samuel. (1969), Jenkins, Robert E. (1970), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Robins, C. Richards, and Edward C. Raney. (1956),

Moxostoma lachrymale (Cope).
Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Eddy, Samuel. (1969),

Moxostoma lesueuri (Richardson, 1823).
Jordan, David Starr, and Barton Warren Evermann. (1896), Walters, Vladimir. (1955),

Moxostoma lesueurii (Richardson).
Dymond, J. R., and J. L. Hart. (1927), Jordan, David Starr. (1929), Smith, Philip W. (1979),

Moxostoma macrolepidotum (Le Sueur, 1817).
Shorthead redhorse, Eastern Red Horse, White Sucker.
Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Bailey, Reeve M., and Gerald R. Smith. (1981), (1954), Baker, S. C., and M. L. Armstrong. (1987), Barnickol, P. G., and W. C. Starrett. (1951), Baxter, George T., and James R. Simon. (1970), Becker, George C. (1983), Beverly-Burton, Mary. (1984), Branson, Branley A., and Donald L. Batch. (1974), Branson, Branley A., and Donald L. Batch, S. Rice. (1981), Breder, C. M., Jr., and D. E. Rosen. (1966), Brown, C. J. D. (1971), Bur, M. T. (1976), Buth, Donald G. (1978), Buth, Donald G. (1979c), Buth, Donald G. (1983), Buynak, G. L., and H. W. Mohr, Jr. (1979), Carlander, Kenneth D. (1943), Carlander, Kenneth D. (1944a), Carlander, Kenneth D. (1944b), Carlander, Kenneth D. (1949), Carlander, Kenneth D. (1969), Carlander, Kenneth D., and J. W. Parsons. (1949), Christenson, L. M. (1957), Coker, R. E. (1930), Comeau, Napoléon A. (1915), Cooper, Edwin Lavern. (1983), Cross, Frank B. (1967), Cross, Frank B., and Joseph T. Collins. (1975), Crossman, E. J. (1976), Curry, Kevin D., and Anne Spacie. (1979), Curry, Kevin D., and Anne Spacie. (1984), Dechtiar, A. O. (1972b), Dorkin, John L., Jr. (1980), Dugal, L. C. (1962), Dymond, J. R. (1964), Eastman, Joseph T. (1977), Eastman, Joseph T. (1980), Eddy, Samuel. (1969), Eddy, Samuel, and Kenneth D. Carlander. (1942), Eddy,

Samuel, and Roy C. Tasker, James C. Underhill. (1972), Eddy, Samuel, and James C. Underhill. (1974), Elrod, J. H., and T. J. Hassler. (1971), Elser, H. J. (1961), Emery, Lee. (1976), Fago, Don. (1984b), Fernholz, W. B., and V. E. Crawley. (1977), Ferris, Stephen D., and Gregory S. Whitt. (1978), Fish, M. P. (1932), Fogle, N. E. (1961a), Fogle, N. E. (1961b), Fogle, N. E. (1963a), Fogle, N. E. (1963b), Forbes, Stephen Alfred. (1884), Forbes, Stephen Alfred., and Robert Earl Richardson. (1908), Fowler, Henry Weed. (1945), Fredrickson, L. H., and M. J. Ulmer. (1965), Fuiman, Lee A. (1979), Gasaway, C. R. (1970), Gobas, F. A. P. C., and D. C. G. Muir, D. Mackay. (1989), Goode, C. Brown, and Theodore Nicholas Gill. (1903), Greeley, J. R. (1936), Greenbank, J. (1950), Greenbank, J. (1957), Hall, Gordon E., and R. M. Jenkins. (1953), Hanson, W. D., and R. S. Campbell. (1963), Harrison, H. M. (1950), Henderson, N. E., and R. E. Peter. (1969),.Hoffman, Glenn L. (1967), Hubert, Wayne A., and Dennis N. Schmitt. (1985), Huggins, Donald G., and Randall E. Moss. (1975), Jenkins, Robert E. (1970), Jenkins, Robert M. (1953b), Jordan, David Starr. (1878a), Jordan, David Starr. (1929), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Barton Warren Evermann. (1923), Keleher, J. J., and B. Kooyman. (1957), Kennicott, Robert. (1855), Kuehn, J. H. (1949), Lachner, E. A. (1967), Lagler, Karl F., and John E. Bardach, Robert Rush Miller. (1962), Lantz, A. W. (1948b), Large, T. (1903), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Le Sueur, Charles Alexandre. (1817), Lindsey, Hague L., and James C. Randolph, John Carroll. (1983), Lower, A. R. M. (1915), Luce, W. (1933), Malick, Robert W., Jr., and Wayne A. Potter. (1976), Mansueti, A. J., and J. D. Hardy. (1967), Martin, R. G., and R. S. Campbell. (1953), Maurakis, Eugene G., and William S. Woolcott. (1984), McAllister, Don E., and Brian W. Coad. (1974), McClane, Albert Jules. (1974), McPhail, J. D., and C. C. Lindsey. (1970), Meek, Seth Eugene. (1894), Meyer, W. H. (1962), Miller, Rudolph J., and H. E. Evans. (1965), Miller, Rudolph J., and Henry W. Robinson. (1973), Minckley, W. L. (1963), Moore, G. A., and Frank B. Cross. (1950), Nelson, E. W. (1876), Nelson, Joseph S. (1976), Nelson, Joseph S. (1984), Nelson, W. R. (1961a), Nelson, W. R. (1962), Nichols, John Treadwell, and William K. Gregory. (1918), O'Donnell, D. J. (1935), Paetz, Martin J., and Joseph S. Nelson. (1970), Page, Lawrence M. (1982), Pearson, William D., and Louis A. Krumholz (1984), Peters, J. C. (ed.) (1964), Pflieger, William L. (1971), Pflieger, William L. (1975), Phillips, Gary L., and William D. Schmid, James C. Underhill. (1982), Potter, Wayne A., and Robert W. Malick, Jr., Janet L. Polk. (1976), Purkett, C. A., Jr. (1958a), Purkett, C. A., Jr. (1958b), Reed, E. B. (1962), Reighard, Jacob E. (1920), Ritson, Philip C., and Janet L. Polk, Robert W. Malick, Jr. (1977), Roberts, J. R., and A. S. W. De Frietas, M. A. J. Gidney. (1977), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Robins, C. Richards, and Edward C. Raney. (1957a), Robinson, G. L., and L. A. Jahn. (1980), Sanderson, A. E., Jr. (1958), Scott, W. B. (1967), Scott, W. B., and E. J. Crossman. (1969), Scott, W. B., and E. J. Crossman. (1973), Seegert, Greg. (1986), Shields, J. T. (1957a), Shields, J. T. (1957b), Shields, J. T. (1958a), Sibley, C. K. (1929), Smith, C. Lavett. (1986), Smith, Gerald R. (1963), Smith, Gerald R. (1981b), Smith, Philip W. (1965), Smith, Philip W. (1973), Smith, Philip W. (1979), Sprague, J. W. (1959a), Stanley, D. R. (1988), Stevens, E. D., and F. E. J. Fry. (1974), Stewart, Kenneth W., and Iain M. Suthers, Kelly Leavesley. (1985), Sule, Michael J., and Thomas M. Skelly. (1985), Thompson, W. H. (1950), Threinen, C. W., and W. T. Helm. (1952), Trautman, Milton B. (1957), Uthe, J. F. (1965), Vladykov, Vadim D. (1933), Walburg, C. H. (1964), Walden, Howard T., 2d. (1964), Werner, Robert G. (1976a), Werner, Robert G. (1976b), Werner, Robert G. (1980), Williams, D. D. (1977b), Williams, D. D. (1979), Williams, D. D. (1980c), Williams, D. D. (1980d), Williams, D. D., and M. J. Ulmer. (1980), Willock, T. A. (1969), Wobeser, G., and N. O. Nielsen, R. H. Dunlop, F. M. Atton. (1970),

Moxostoma macrolepidotum breviceps (Cope, 1870).
Ohio Shorthead Redhorse.

Bauer, Bruce H., and Branley A. Branson, Strant T. Colwell. (1978), Clay, W. M. (1975), Comiskey, C. E., and D. A. Etnier. (1972), Jenkins, Robert E. (1970), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Smith, C. Lavett. (1986), Trautman, Milton B. (1981),

Moxostoma macrolepidotum macrolepidotum (Le Sueur, 1817).
Northern Shorthead Redhorse.
Bailey, Reeve M., and Marvin O. Allum. (1962), Clay, W. M. (1975), Hubbs, Carl L., and Karl F. Lagler. (1974), Jenkins, Robert E. (1970), Larimore, R. W., and P. W. Smith. (1963), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Smith, C. Lavett. (1986), Trautman, Milton B. (1981),

Moxostoma macrolepidotum pisolabrum Trautman and Martin, 1951.
Carlander, Kenneth D. (1944b), Fogle, N. E. (1961b), Fry, F. E. J. (1960), Hall, Gordon E., and R. M. Jenkins. (1953), Hankinson, T. L. (1920), Jenkins, Robert E. (1970), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Meyer, W. H. (1962), Moore, G. A., and Frank B. Cross. (1950), Nelson, W. R. (1961a), Nelson, W. R. (1962), Nurnberger, P. K. (1930), Peters, J. C. (ed.) (1964), Purkett, C. A., Jr. (1958a), Reed, E. B. (1962), Reighard, Jacob E. (1920), Riggs, C. D., and G. A. Moore. (1963), Shields, J. T. (1955a), Shields, J. T. (1956), Shields, J. T. (1957a), Shields, J. T. (1957b), Shields, J. T. (1958a), Sprague, J. W. (1959a), Starrett, William C. (1958),

Moxostoma mascotae Regan, 1907.
Regan, Charles Tate. (1907), Villar, José Alvarez del. (1970),

Moxostoma melanops (Rafinesque, 1820).
Spotted Sucker, Winter Sucker, Striped Sucker.
Tsuyuki, H., and E. Roberts, R. H. Kerr, J. F. Uthe, L. W. Clarke. (1967),

Moxostoma oblongum (Mitchill, 1815).
Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Günther, Albert C. (1868), Jordan, David Starr, and Barton Warren Evermann. (1896),

Moxostoma oblongus (Mitchill, 1815).
Agassiz, John Louis Rodolphe. (1855), Günther, Albert C. (1868), Jordan, David Starr, and Barton Warren Evermann. (1896),

Moxostoma pappillosum (Cope, 1870).
Suckermouth redhorse, V-lip redhorse, White Mullet.
Buth, Donald G. (1978), Fowler, Henry Weed. (1945), Jenkins, Robert E. (1970), Jordan, David Starr. (1878d), Jordan, David Starr. (1929), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Barton Warren Evermann. (1905), Jordan, David Starr, and Charles Henry Gilbert. (1883), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Miller, Rudolph J., and H. E. Evans. (1965), Pickens, A. L. (1928), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980),

Moxostoma parvidens Regan, 1907.
Regan, Charles Tate. (1907),

Moxostoma pidiense (Cope, 1870).
Evermann, Barton Warren. (1916), Jordan, David Starr. (1878d), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883),

Moxostoma poecilura.
Fowler, Henry Weed. (1945),

Moxostoma pœcilurum (Jordan, 1877).
Blacktail redhorse.
Amin, Omar M., and Ernest H. Williams, Jr. (1983), Anonymous. (1958a), Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Boschung, Herbert T., Jr., and James D. Williams, Daniel W. Gotshall, David K. Caldwell, Melba C. Caldwell, Carol Nehring, Jordan Verner. (1983), Burr, Brooks M., and D. A. Carney. (1984), Buth, Donald G. (1978), Carlander, Kenneth D. (1969), Chien, Shin Ming, and Wilmer A. Rogers. (1970), Douglas, Neil H. (1974), Eddy, Samuel. (1957), Eddy, Samuel. (1969), Evans, James W., and Richard L. Noble. (1979), Fingerman, Sue Whitsell, and Royal D. Suttkus. (1961), Garth, W. A., and J. S. Dendy. (1952), Herald, Earl S. (1967), Herald, Earl S. (1979), Jenkins, Robert E. (1970), Jordan, David Starr. (1878d), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883), Kilgen, R. H. (1974a), Kilgen, R. H. (1974b), Kilken, R. H. (1972), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Miller, Rudolph J., and H. E. Evans. (1965), Nelson, Edward M. (1948), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Rogers, Wilmer A. (1967), Swingle, W. E. (1965), Viosca, Percy, Jr. (1936), Viosca, Percy, Jr. (1937), Williams, E. H., Jr. (1974), Williams, E. H., Jr. (1980), Xiong Quanimo. (1988),

Moxostoma rhotheca.
Eddy, Samuel. (1969), Flemer, D. A., and W. S. Woolcott. (1966),

Moxostoma rhothoecum (Thoburn **IN:** Jordan and Evermann, 1896).
Torrent sucker.
Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Buth, Donald G. (1977a), Carlander, Kenneth D. (1969), Eddy, Samuel. (1957), Ferris, Stephen D., and Gregory S. Whitt. (1978), Flemer, D. A., and W. S. Woolcott. (1966), Gilbert, Carter R. (1961), Jenkins, Robert E. (1970), Jordan, David Starr, and Barton Warren Evermann. (1896), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Raney, Edward C., and Ernest A. Lachner. (1946c), Robins, C. Richard. (1961), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980),

Moxostoma robustrum (Cope, 1870).
Smith, Michael L. (1981),

Moxostoma robustum (Cope, 1870).
Smallfin redhorse.
Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Buth, Donald G. (1978), Eddy, Samuel. (1969), Fowler, Henry Weed. (1945), Jenkins, Robert E. (1970), Jordan, David Starr, and Barton Warren Evermann. (1896), Lee, David S., and

Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980),

Moxostoma rubresque Hubbs, 1930.
Keleher, J. J., and B. Kooyman. (1957), Lantz, A. W. (1948a), Lantz, A. W. (1966), Lantz, A. W. (1969), Ricker, W. E. (1962), Schmidt, P. J. (1949), Schmidt, P. J. (1950), Tarr, H. L. A. (1952),

Moxostoma rubreques Hubbs, 1930.
Hinks, David. (1943),.Hoffman, Glenn L. (1967), Hubbs, Carl L. (1930), Hubbs, Carl L., and Karl F. Lagler. (1941), Hubbs, Carl L., and Karl F. Lagler. (1947), Nelson, Edward M. (1948), Robins, C. Richards, and Edward C. Raney. (1957a), Smith, Philip W. (1979), Trautman, Milton B. (1981), Vladykov, Vadim D. (1942),

Moxostoma rupiscartes Jordan and Jenkins **IN:** Jordan, 1889.
Striped jumprock, Jump-rocks.
Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Boschung, Herbert T., Jr., and James D. Williams, Daniel W. Gotshall, David K. Caldwell, Melba C. Caldwell, Carol Nehring, Jordan Verner. (1983), Buth, Donald G. (1978), Eddy, Samuel. (1969), Jenkins, Robert E. (1970), Jordan, David Starr. (1889), Jordan, David Starr, and Barton Warren Evermann. (1896), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), McClane, Albert Jules. (1974), Pickens, A. L. (1928), Raney, Edward C., and Ernest A. Lachner. (1946a), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980),

Moxostoma tenue Agassiz, 1855.
Agassiz, John Louis Rodolphe. (1855), Günther, Albert C. (1868), Jordan, David Starr, and Barton Warren Evermann. (1896),

Moxostoma thalassinum (Cope, 1870).
Jordan, David Starr, and Barton Warren Evermann. (1896),

Moxostoma thalassinus Cope, 1870.
Jordan, David Starr. (1878d), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883),

Moxostoma trisignatum Cope and Yarrow, 1876.
Cope, Edward Drinker, and H. C. Yarrow. (1875), Jordan, David Starr, and Barton Warren Evermann. (1896),

Moxostoma valenciennesi Jordan, 1885.
Greater redhorse.
Bailey, Reeve M., and John E. Fitch, Earl S. Herald, Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, W. B. Scott. (1970), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Bailey, Reeve M., and Gerald R. Smith. (1981), (1954), Becker, George C. (1966), Becker, George C. (1983), Burr, Brooks M., and D. A. Carney. (1984), Burr, Brooks M., and M. A. Morris. (1977), Buth, Donald G. (1978), Buth, Donald G. (1979a), Cooper, Edwin Lavern. (1983), Dunst, R. C., and T. Wirth. (1972), Dymond, J. R., and J. L. Hart, A. L. Pritchard. (1929), Eastman, Joseph T. (1977), Eddy, Samuel. (1969), Eddy, Samuel, and Roy C. Tasker, James C. Underhill. (1972), Eddy, Samuel, and James C. Underhill. (1974), Fago,

Don. (1982), Fago, Don. (1984b), Forbes, Stephen Alfred., and Robert Earl Richardson. (1908), Fourine, J. W., and J. J. Black, A. D. Vethaak. (1988), Greene, C. W. (1935), Hubbs, Carl L. (1930), Hubbs, Carl L., and Karl F. Lagler. (1974), Jenkins, Robert E. (1970), Jenkins, Robert E., and D. J. Jenkins. (1980), Jordan, David Starr. (1885a), Jordan, David Starr, and Barton Warren Evermann. (1896), Keleher, J. J., and B. Kooyman. (1957), Lantz, A. W. (1948a), Lantz, A. W. (1966), Lantz, A. W. (1969), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Legendre, Vianney. (1942), Les, B. L. (1979), McAllister, Don E., and Brian W. Coad. (1974), Pearson, William D., and Louis A. Krumholz (1984), Phillips, Gary L., and William D. Schmid, James C. Underhill. (1982), Ricker, W. E. (1962), Rimsky-Korsakoff, V. N. (1930), Robins, C. Richard, and Reeve M. Bailey, Carl E. Bond, James R. Brooker, Ernest A. Lachner, Robert N. Lea, W. B. Scott. (1980), Robins, C. Richards, and Edward C. Raney. (1957a), Schmidt, P. J. (1949), Schmidt, P. J. (1950), Scott, W. B. (1954), Scott, W. B. (1958), Scott, W. B. (1967), Scott, W. B., and E. J. Crossman. (1969), Scott, W. B., and E. J. Crossman. (1973), Seegert, Greg. (1986), Smith, C. Lavett. (1986), Smith, Philip W. (1973), Smith, Philip W. (1979), Smith, Philip W., and A. C. Lopinot, W. L. Pflieger. (1971), Tarr, H. L. A. (1952), Taylor, W. R. (1954), Trautman, Milton B. (1957), Trautman, Milton B. (1981), Werner, Robert G. (1976a), Werner, Robert G. (1976b), Werner, Robert G. (1980), Whitaker, J. O., and D. C. Wallace. (1966), Yoder, Chris O., and Raymond A. Beaumier. (1986),

Moxostoma velatum (Cope, 1870).
Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883), Smith, Hugh M. (1893),

Moxostoma victoriæ Girard, 1857.
Girard, C. F. (1857), Günther, Albert C. (1868), Jordan, David Starr, and Barton Warren Evermann. (1896), Robins, C. Richards, and Edward C. Raney. (1957a),

Myxocyprinus Gill, 1878.
Eschmeyer, William N. (1990), Ferris, Stephen D., and Gregory S. Whitt. (1978), Fowler, Henry Weed. (1958), Jordan, David Starr. (1923), Lagler, Karl F., and John E. Bardach, Robert Rush Miller. (1962), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Miller, Robert Rush. (1958), Moyle, Peter B., and Joseph J. Cech, Jr. (1982), Nelson, Edward M. (1948), Nelson, Edward M. (1949), Nelson, Edward M. (1976), Smith, Gerald R. (1966), Ueno, K., and A. Nagase, J.-J. Ye. (1988),

Myxocyprinus asiaticus (Bleeker, 1864).
Chang, C.-Y., and G. I. Ji. (1978), Eastman, Joseph T. (1980), Fang, P. W. (1934), Herald, Earl S. (1967), Lagler, Karl F., and John E. Bardach, Robert Rush Miller. (1962), Lo, Y.-I., and H.-W. Wu. (1979), Moyle, Peter B., and Joseph J. Cech, Jr. (1982), Nelson, Edward M. (1948), Nelson, Joseph S. (1976), Nelson, Joseph S. (1984), Quanwei, Xiong, and Xia Shenglin. (1985), Ramaswami, L. S. (1957), Rendahl, H. (1932), Tsoi, S. C. M., and S.-C. Lee, W.-C. Chao. (1989), Ueno, K., and A. Nagase, J.-J. Ye. (1988), Yu, Z., and Z. Deng, M. Cai, X. Deng, H. Jiang, J. Yi, J. Tian. (1988),

Myxocyprinus asiaticus asiaticus (Bleeker, 1864).
Bleeker, P. (1864), Nichols, John Treadwell. (1943),

Myxocyprinus asiaticus chinensis (Dabry de Thiersant, 1872).
Huo-shao-pien.
Nichols, John Treadwell. (1943),

Myxocyprinus asiaticus fukiensis Nichols, 1925.
Nichols, John Treadwell. (1925), Nichols, John Treadwell. (1928), Nichols, John Treadwell. (1943),

Myxocyprinus asiaticus nankinensis Tchang, 1929.
Nichols, John Treadwell. (1943), Tchang, T.-L. (1929),

Myxostoma
Jordan. Jordan, David Starr. (1923), Jordan, David Starr, and Alembert Winthrop Brayton. (1877),

Myxostoma aureola.
Nelson, E. W. (1878),

Myxostoma aureolum.
Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Smith, Philip W. (1979),

Myxostoma austrina Bean, 1879.
Bean, Tarleton Hoffman. (1879), Jordan, David Starr, and Barton Warren Evermann. (1896),

Myxostoma carpio.
Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Smith, Philip W. (1979),

Myxostoma euryops Jordan, 1877.
Jordan, David Starr. (1877c), Jordan, David Starr, and Barton Warren Evermann. (1896),

Myxostoma macrolepidota (Le Sueur, 1817).
Nelson, E. W. (1878),

Myxostoma macrolepidotum (Le Sueur, 1817).
Smith, Philip W. (1979),

Myxostoma macrolepidotum duquesnii.
Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Smith, Philip W. (1979),

Myxostoma pœcilura Jordan, 1877.
Jordan, David Starr. (1877a), Jordan, David Starr, and Barton Warren Evermann. (1896),

Myxostoma velatum.
Smith, Philip W. (1979),

Notolepidomyzon Fowler, 1913.
Eschmeyer, William N. (1990), Fowler, Henry Weed. (1914a), Jordan, David Starr. (1923), Smith, Gerald R. (1966), Tanner, V. M. (1942),

Notolepidomyzon clarki.
Smith, Gerald R. (1966),

Notolepidomyzon generosus (Girard, 1856).
Smith, Gerald R. (1966),

Notolepidomyzon intermedius Tanner, 1942.
Smith, Gerald R. (1966), Tanner, V. M. (1942),

Notolepidomyzon plebeius.
Smith, Gerald R. (1966),

Notolepidomyzon santa-anae (Snyder, 1908).
Smith, Gerald R. (1966),

Notolepidomyzon santae-anae (Snyder, 1908).
Smith, Gerald R. (1966),

Notolepidomyzon utahensis Tanner, 1932.
Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Smith, Gerald R. (1966), Tanner, V. M. (1942),

Pantosteus Cope, 1875.
Mountain suckers.
Cope, Edward Drinker, and H. C. Yarrow. (1875), Dunham, A. E., and Gerald R. Smith, J. N. Taylor. (1979), Eschmeyer, William N. (1990), Evermann, Barton Warren. (1893b), Ferris, Stephen D., and Gregory S. Whitt. (1978), Fowler, Henry Weed. (1914a), Hubbs, Carl L., and Laura C. Hubbs, R. E. Johnson. (1943), Jordan, David Starr. (1923), Jordan, David Starr, and Barton Warren Evermann. (1896), Koehn, Richard K. (1969), Miller, Robert Rush. (1958), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Moyle, Peter B., and Joseph J. Cech, Jr. (1982), Nelson, Edward M. (1948), Nelson, Edward M. (1949), Nelson, Joseph S. (1976), Romer, Alfred Sherwood. (1966), Smith, Gerald R. (1965), Smith, Gerald R. (1966),

Pantosteus araeopus (Jordan, 1878).
Jordan, David Starr, and Barton Warren Evermann. (1896), Smith, Gerald R. (1966),

Pantosteus arizonæ Gilbert, 1896 **IN:** Jordan and Evermann, 1896.
Fowler, Henry Weed. (1914a), Gilbert, Charles Henry, and N. B. Scofield. (1898), Jordan, David Starr, and Barton Warren Evermann. (1896), Smith, Gerald R. (1966),

Pantosteus bardus Cope.
Cope, Edward Drinker, and H. C. Yarrow. (1875),

Pantosteus clarki (Baird and Girard, 1854).
Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883), Koehn, Richard K. (1966), Koster, William J. (1957), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Smith, Gerald R. (1966),

Pantosteus clarkii.
Nelson, Edward M. (1948),

Pantosteus columbianus Eigenmann and Smith, 1893.
Bridgelip Sucker.
Eigenmann, Carl H., and Rosa Smith. (1893), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Smith, Gerald R. (1966),

Pantosteus delphinus (Cope, 1872).
Blueheaded Sucker.

Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Carlander, Kenneth D. (1969), Cope, Edward Drinker, and H. C. Yarrow. (1875), Goode, C. Brown, and Theodore Nicholas Gill. (1903), Hubbs, Carl L., and Laura C. Hubbs. (1947), Jordan, David Starr, and Barton Warren Evermann. (1896), Koster, William J. (1957), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Miller, Rudolph J., and H. E. Evans. (1965), Nelson, Edward M. (1948), Simon, James R. (1946), Smith, Gerald R. (1966),

Pantosteus delphinus delphinus (Cope, 1872).
Hubbs, Carl L., and Laura C. Hubbs. (1947), Smith, Gerald R. (1966),

Pantosteus delphinus jordani.
Smith, Gerald R. (1966),

Pantosteus delphinus utahensis (Tanner).
Smith, Gerald R. (1966),

Pantosteus discobulus.
Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Smith, Gerald R. (1966),

Pantosteus discobulus yarrowi.
Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986),

Pantosteus discobulus jarrowi.
Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986),

Pantosteus generosus (Girard, 1856).
Mountain sucker.
Goode, C. Brown, and Theodore Nicholas Gill. (1903), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883), Smith, Gerald R. (1966),

Pantosteus guzmaniensis (Girard, 1856).
Jordan, David Starr, and Barton Warren Evermann. (1896), Smith, Gerald R. (1966),

Pantosteus intermedius Tanner, 1942.
Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Smith, Gerald R. (1966),

Pantosteus jarrovii Cope and Yarrow, 1875.
Cope, Edward Drinker, and H. C. Yarrow. (1875), Jordan, David Starr, and Barton Warren Evermann. (1896), Smith, Gerald R. (1966),

Pantosteus jordani Evermann, 1893.
Bond, Carl E. (1953), Eigenmann, Carl H. (1895), Eigenmann, Carl H., and Rosa Smith. (1893), Evermann, Barton Warren. (1893b), Evermann, Barton Warren. (1896), Goode, C. Brown, and Theodore Nicholas Gill. (1903),.Hoffman, Glenn L. (1967), Jordan, David Starr. (1929), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Barton Warren Evermann. (1905), Miller, Rudolph J., and H. E. Evans. (1965), Schultz, Leonard P. (1936), Scott, W. B. (1957), Scott, W. B. (1958), Scott, W. B., and E. J. Crossman. (1969), Simon, James R. (1946), Smith, Gerald R. (1966),

Pantosteus lahontan Rutter, 1904.

Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Nelson, Edward M. (1948), Rutter, Cloudsley M. (1904), Smith, Gerald R. (1966),

Pantosteus macrocheilus Girard.

Evermann, Barton Warren. (1896),

Pantosteus platyrhynchus (Cope, 1874).

Northern Mountain Sucker.

Bailey, Reeve M., and Marvin O. Allum. (1962), Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Goode, C. Brown, and Theodore Nicholas Gill. (1903),.Hoffman, Glenn L. (1967), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883), McPhail, J. D., and C. C. Lindsey. (1970), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Nelson, Edward M. (1948), Simon, James R. (1946), Smith, Gerald R. (1966), Snyder, John Otterbein. (1924), Willock, T. A. (1969),

Pantosteus plebeius (Baird and Girard, 1854).

Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Breder, C. M., Jr., and D. E. Rosen. (1966), Jordan, David Starr. (1878d), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883), Koehn, Richard K. (1966), Koster, William J. (1957), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Nelson, Edward M. (1948), Smith, Gerald R. (1966),

Pantosteus santaanae Snyder, 1908.

Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Minckley, W. L., and Dean A. Hendrickson, Carl E. Bond. (1986), Smith, Gerald R. (1966),

Pantosteus santa-anae Snyder, 1908.

Nelson, Edward M. (1948), Smith, Gerald R. (1966), Snyder, John Otterbein. (1908a),

Pantosteus santanae Snyder, 1908.

Smith, Gerald R. (1966),

Pantosteus utahensis (Tanner, 1932).

Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Nelson, Edward M. (1948),

Pantosteus virescens Cope, 1875.

Bailey, Reeve M., and Ernest A. Lachner, C. C. Lindsey, C. Richard Robins, Phil M. Roedel, W. B. Scott, Loren P. Woods. (1966), Cope, Edward Drinker, and H. C. Yarrow. (1875), Jordan, David Starr. (1878e), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883), Smith, Gerald R. (1966), Snyder, John Otterbein. (1924),

Pantosteus yarrowi.

Smith, Gerald R. (1966),

Pithecomyzon Fowler, 1913.
Eschmeyer, William N. (1990), Fowler, Henry Weed. (1914a), Jordan, David Starr. (1923),

Placopharynx Cope, 1870.
Cope, Edward Drinker. (1870), Eschmeyer, William N. (1990), Jordan, David Starr. (1923), Jordan, David Starr, and Barton Warren Evermann. (1896), Meek, Seth Eugene. (1894), Nelson, Edward M. (1948), Nelson, Edward M. (1949),

Placopharynx carinatns.
Smith, Philip W. (1979),

Placopharynx carinatus Cope, 1870.
Blatchley, W. S. (1938), Cope, Edward Drinker. (1870), Cross, Frank B., and G. A. Moore. (1952), Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Fowler, Henry Weed. (1945), Hubbs, Carl L., and Karl F. Lagler. (1941), Hubbs, Carl L., and Karl F. Lagler. (1947), Jordan, David Starr. (1878d), Jordan, David Starr. (1929), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883), Meek, Seth Eugene. (1894), Nelson, Edward M. (1948), Smith, Philip W. (1979), Trautman, Milton B. (1981), Vladykov, Vadim D. (1942),

Placopharynx duquesnei (Le Sueur, 1817).
Pavement-Toothed Red-Horse.
Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Smith, Philip W. (1979),

Placopharynx duquesnii (Le Sueur, 1817).
Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Barton Warren Evermann. (1905),

Procatostomus constablei Whitfield, 1890.
Whitfield, Robert Parr. (1890), Not a member of the Catostomidae, but rather the Family Gonorynchidae, = Notogoneus osculus Cope, 1885.

Proictiobus zaissanicus Sychevskaya, 1984.
Sychevskaya, E. K. (1984),

Ptychostomus Agassiz, 1855.
Eschmeyer, William N. (1990), Jordan, David Starr. (1923), Jordan, David Starr, and Alembert Winthrop Brayton. (1877),

Ptychostomus albidus Girard, 1857.
Girard, C. F. (1857), Jordan, David Starr, and Barton Warren Evermann. (1896),

Ptychostomus albus Cope, 1870.
Cope, Edward Drinker. (1870), Jordan, David Starr, and Barton Warren Evermann. (1896),

Ptychostomus aureolus (Le Sueur, 1817).
Agassiz, John Louis Rodolphe. (1855), Jordan, David Starr, and Barton Warren Evermann. (1896),

Ptychostomus breviceps Cope, 1870.
Cope, Edward Drinker. (1870), Forbes, Stephen Alfred., and Robert Earl Richardson. (1920), Jordan, David Starr, and Barton Warren Evermann. (1896),

Ptychostomus bucco Cope, 1872.
Cope, Edward Drinker. (1871), Jordan, David Starr, and Barton Warren Evermann. (1896),

Ptychostomus cervinus (Cope, 1868).
Cope, Edward Drinker. (1870), Fowler, Henry Weed. (1914a), Jordan, David Starr, and Barton Warren Evermann. (1896),

Ptychostomus collapsus Cope, 1870.
Cope, Edward Drinker. (1870), Jordan, David Starr, and Barton Warren Evermann. (1896),

Ptychostomus congestus (Baird and Girard, 1855).
Günther, Albert C. (1868),

Ptychostomus conus Cope, 1870.
Cope, Edward Drinker. (1870), Jordan, David Starr, and Barton Warren Evermann. (1896),

Ptychostomus coregonus Cope, 1870.
Cope, Edward Drinker. (1870), Jordan, David Starr, and Barton Warren Evermann. (1896),

Ptychostomus crassilabris Cope, 1870.
Cope, Edward Drinker. (1870), Jordan, David Starr, and Barton Warren Evermann. (1896),

Ptychostomus duquesnei (Le Sueur, 1817).
Cope, Edward Drinker. (1870), Jordan, David Starr, and Barton Warren Evermann. (1896),

Ptychostomus duquesnii (Le Sueur, 1817).
Günther, Albert C. (1868),

Ptychostomus erythrurus.
Cope, Edward Drinker. (1870), Jordan, David Starr, and Barton Warren Evermann. (1896),

Ptychostomus haydeni Girard, 1857.
Girard, C. F. (1857), Günther, Albert C. (1868), Jordan, David Starr, and Barton Warren Evermann. (1896), Robins, C. Richards, and Edward C. Raney. (1957a),

Ptychostomus lachrymalis Cope, 1870.
Cope, Edward Drinker. (1870), Jordan, David Starr, and Barton Warren Evermann. (1896),

Ptychostomus melanops (Rafinesque, 1820).
Agassiz, John Louis Rodolphe. (1855), Günther, Albert C. (1868),

Ptychostomus oneida.
Cope, Edward Drinker. (1870), Jordan, David Starr, and Barton Warren Evermann. (1896),

Ptychostomus papillosus Cope, 1870.
Cope, Edward Drinker. (1870), Jordan, David Starr, and Barton Warren Evermann. (1896),

Ptychostomus pidiensis.
Cope, Edward Drinker. (1870), Jordan, David Starr, and Barton Warren Evermann. (1896),

Ptychostomus robustus Cope, 1870.
Cope, Edward Drinker. (1870), Jordan, David Starr, and Barton Warren Evermann. (1896),

Ptychostomus thalassinus Cope, 1870.
Cope, Edward Drinker. (1870),

Ptychostomus velatus Cope, 1870.
Cope, Edward Drinker. (1870), Jordan, David Starr, and Barton Warren Evermann. (1896),

Quassilabia Jordan and Brayton, 1878.
Eschmeyer, William N. (1990), Jordan, David Starr. (1878b), Jordan, David Starr. (1878c), Jordan, David Starr. (1878d), Jordan, David Starr. (1923), Jordan, David Starr, and Barton Warren Evermann. (1896),

Quassilabia lacera (Jordan and Brayton, 1877).
Harelip Sucker.
Goode, C. Brown, and Theodore Nicholas Gill. (1903), Jordan, David Starr. (1878b), Jordan, David Starr, and Barton Warren Evermann. (1896), Jordan, David Starr, and Charles Henry Gilbert. (1883), Meek, Seth Eugene. (1894),

Rhytidostomus
Eschmeyer, William N. (1990),

Rhytidostomus elongatus (Le Sueur, 1817).
Jordan, David Starr, and Barton Warren Evermann. (1896),

Rutilus melanurus Rafinesque, 1820.
Jordan, David Starr, and Barton Warren Evermann. (1896), Rafinesque, Constantine Samuel. (1820b),

Scartomyzon Fowler, 1913.
Eschmeyer, William N. (1990), Fowler, Henry Weed. (1914a), Lee, David S., and Carter R. Gilbert, Charles H. Hocutt, Robert E. Jenkins, Don E. McAllister, Jay R. Stauffer, Jr. (1980), Nelson, Joseph S. (1976), Nelson, Joseph S. (1984), Robins, C. Richards, and Edward C. Raney. (1957a), Robins, C. Richards, and Edward C. Raney. (1957b), Smith, Gerald R. (1966), Smith, Michael L., and Ted M. Cavender, Robert R. Miller. (1975),

Scartomyzon cervinus (Cope).
Jumprocks, Jumping Mullet.
Jordan, David Starr. (1929),

Scartomyzon rupiscartes (Jordan and Jenkins).
Jordan, David Starr. (1929),

Sclerognathus Cuvier and Valenciennes, 1844.
Eschmeyer, William N. (1990), Günther, Albert C. (1868),

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Xyrauchen cypho (Lockington, 1881).
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Bruner, John Clay. 1991. Bibliography of the Family Catostomidae (Cypriniformes). Provincial Museum of Alberta Natural History Occasional Paper No. 14.

ERRATA

PREFACE

page v, col. 1, lines 1,24,32. Change "2000" to 2004"
page v, col. 1, line 31. Change "thirty five" to "fifty four"
page v, col. 1, line 47. Change "Éienne La Cepéde's" to "Étienne La Cepède's"
page v, col. 2, line 22. Change "148" to "164"

AUTHOR INDEX

page 3, following line 29 insert:
Andryushchenko, A.I., and N.F. Grishcenko. 1985. [in Russian] The upper temperature threshold for survival in the big mouth buffalo during early ontogenesis. Rybnoe Khoz., Kiev No. 39:28-31
page 10, line 14. Change "Behmer, D.J. 1969" to "Behmer, D.J. 1969b" and move to line 16
page 10, line 16. Change "Behmer, D.J. 1969" to "Behmer, D.J. 1969a" and move to line 14
page 10, line 26. Change "Harvey. 1986" to "Harvey. 1986a"
page 10, line 29. Change "Harvey. 1986" to "Harvey. 1986b"
page 15, line 3. Change "Pritchard. 1946" to "Pritchard. 1946a"
page 15, line 5. Change "Pritchard. 1946" to "Pritchard. 1946b"
page 41, following line 28 insert:
Gee, R.J. 1989. A morphological study of the nervous system of the praesoma of *Octospinifer macilentus* (Acanthocephala: Noechinorhynchidae). J. Morphol. Vol. 196(1):23-31.
page 44, line 31. At beginning of line insert: "Greer, J.K., and Frank B. Cross. 1956."
page 47, line 33. Change "Drabl s" to "Drabløs"
page 48, following line 38 insert:
Heierhorst, J., and S.D. Morley, J. Figueroa, C. Krentler, K. Lederis, D. Richter. 1989. Vasotocin and isotocin precursors from the white sucker *Catostomus commersoni*: cloning and sequence analysis of the cDNAs. Proc. Natl. Acad. Sci. USA Vol. 86(14):5242-5246.
page 49, line 21. Change "Hocutt, JrApreliminary..." to "Hocutt, Jr., C.R. Gilbert. 1979. A preliminary..."
page 51, line 18. Change "1975" to "1975a"
page 51, line 21. Change "1975" to "1975b"
page 52, line 16. Change "Materials for a revision..." to "Hubbs, Carl L. 1930. Materials for a revision..."
page 53, line 23. Change "AcademyVol" to "Academy of Science 1974(1975). Vol"
page 61, line 20. Change "1973" to "1973a"
page 61, line 23. Change "1973" to "1973b"
page 66, line 1. Change "esp_ce" to "espèce"
page 71, line 28. Change "Vol. 18(1):95-102" to "Vol. 78(1):95-102"
page 75, line 20. Change "J. Witteld" to "J.W. Held"
page 109, line 21. Change "1987" to "1987a"
page 109, line 23. Change "1987" to "1987b"
page 111, line 13. Change "1987" to "1987a"
page 111, line 16. Change "1987" to "1987b"
page 111, line 36. Change "Biochem. Vol." to "Biochem. Physiol. B. Comp. Biochem. Vol."
page 120, line 19. Change "1980" to "1980a"
page 120, line 21. Change "1980" to "1980b"
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page 124, line 13. Change "1986" to "1986a"
page 124, line 16. Change "1986" to "1986b"

INDEX TO SCIENTIFIC NAMES

page 133, line 29. Change "1190" to "Nelson, Joseph S. (1984),"
page 149, line 15. Change "1990" to "1989"
page 150, line 36. Change "J. Arthur,Hermanutz" to "J. Arthur, R. Hermanutz,"
page 152, line 10. Change "Glutenmann" to "Gutenmann"
page 171, line 46. Change "J. Witteld." to "J.W. Held."

NATURAL HISTORY OCCASIONAL PAPER TITLES

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No. 10 Natural History of the Bistcho Lake Region, Northwest Alberta. 1988. W. Bruce McGillivray and Ross I. Hastings (eds.). 106 pp.

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No. 13 Alberta Birds, 1971-1980. Volume 1. Non-Passerines. 1991. Harold W. Pinel, Wayne W. Smith and Cleve R. Wershler. 243 pp.

No. 14 Bibliography of the Family Catostomidae (Cypriniformes). 1991. John Clay Bruner. 213 pp.